KIN	DERGARTEN STEM STORYLINES				Englanding Lancas, area, think quarks consistent with local instantion lancing b	andundar distorted dan lauredared action	-				
T			Supplies needed	Constantia							Onick Links to Americ Drive
+	Kinderperten STEd Module Storylines QUARTER 1	Approx. Pacio	s journal)	Activities	Utah Core State SFEd Alignment	Science and Engineering Practice (SEP)	Cross-Cutting Standards (CC)	Disciplinary Core Ideas (DCI) codes	Assessments	Quick Links to SEEd CANVAS Modules. K116:K12 Weather Patterns	Quick Links to Anny's Drive (geogle slides, student journal files) <u>K11 & K12 Weather Patterns</u>
	K.1.1 & K.1.2 Weather Patterns CANVAS K.1.1 & K.1.2 Weather Patterns				Standard E. I.I.						
	Google Drive K 115 K 12 Weather Patterns				Datafact 2.13 Officials, excitance, and a communication in discussion along a discussion and a discussion of a dataset in parameters on time. Topphysics the resolvers' endocrines and along of data. Transplant of datasets and in bother same, datasity working, using outdisc or works. (2020) 203 Randood 56.1.2.3 Officials, endocrines, and a communication of one endocrine on the other of forward workers parameters.	Obstaining, Tealsating and Communicating Information	Pamera	(ESS2) Earth's Systems		K.1.3 Effect of Sunlight	K13 & K14 Effect of Sunlight
	Exercise Trapetty 1. Sendow will color warbs data to find patterns. 2. Student will find information on human behavior based on warbse patterns.				East a second receipt and presently receipt, and or testin (plots). Standorf E. I. Chiefs, evolutive, and communitative information are due effort of ferror and treatmer present or human behavior. Transpler and it include have business required as load formation of stypical and across workshow and a second heat, high winds, that forech, data detection, and or surveyses.						
	Day In During the start of class, ask the kids what the weather is like conside. Go conside and point our any clouds,	(25 minutes			Teacher Resources:	Obtaining, Endoaring and Communicating Information Supplemental Resources:		(ESS3) Earth and Human Activity		K 14 Building a Shade Shelter	K.1.4 Duilding a Shade Shelter-
	Day In Daving the start of slaw, alt the lids what the weather is Har conside. Go conside and point cost any clouds, randigit, wind or anything dow wardter related. It is reasony conside? It is raisy senside? Mark the calendar with a swather relative or dow wordting (as na, a similary) to indicate what the weather is like conside today. (Respect this Weather Calendar curvice daily for at least 2 works or longer.)	unit) 5 mins dully								K.2.1 & K.2.2 Survival Needs	K.2.18 K.2.2 Survival Needs of Animals
	Day 2. Phenomena video of a snowman melting, studient draw/write in their lareet, wonder, learned table (in studiest journal). They sing the usage 'Dear there was a snowman' and act out a snowman melting.					Engineering Design: 01K Den't Squish the Bagel					
		Sminutes				(Students move like bugs would during various weather events. i.e when it's sunny I come outside,					
		,				when it's surry I come outside, when it rains I hide in the ground.)					
			A large current calendar, and markers or weather stickers.	Marie/Dancel		Supplier Music, and an area to dance				K 21& K 2.2 Survival Needs of Plants	K216 K22 Sarvival Needs of Plants
	Day 3s Carliner activity standards look at gloctance of trues in winner, unsing and full. Students durationle a true in search of the second per models are started by flow and the second per models of the colored generation of the second per models are started by the second per model and a starter of the per start of the second per models are started by the second per start of the second per start of the second per start of the second per started by the second per start of the		tissue paper, glue, scissors, graph crayons or weather stickers.			Engineering Design: 02 K Raindreps on Roses and					
	references many paper or a strate the true in DecJars/Feb (pare branches) and a projence reference part (April, Oper, Control (1997)) and the part (1997) and the projence of the project (1997) and the proje		matching cards, Paperdoll or paperdoll template. crayons or			Whiskers on Kittens					
		30 mirs	scrap paper and glue for decorating, tissue paper			(Students create a song and dance with a team to be less scared of rhunderstorms.)					
				Art		Supplier Music, and an area to dance					K2.38 K2.4 Servicel of the Creative (Service) Needs
	Day & Rasson activity enderst go on a wells conside and collect things from d in nature. Focus on partners-full leaves, or flowers, what is malible right new that would'd be malible during a different same-how enders identify why. They held a ranker will collection ad dow and held be made to parendly.	30 mins									K.2.4 REDUCE, REUSE, RECYCLE, Survival Needs of
	They build a narraw well collection and flow and label (in random journal). Day 5: Communicate activity students complete a graph using the number of stang, cloudy, rainy, normy, stony ar wind if day there were for the new web. (Note can wait insters and do this reach when you have more data.)	32 mires		Ant							Hamana K.3.1 & K.3.2 Ferre & Metion
	Day 5: Communicate activity strategies complete a graph uning the number of stange, checkly, rainy, stormy our wind dyoy draw wave for the part web. (No cas wait integer and de this graph when you have more data.) Day 6: 49 Photometry, contents web, 1 view of Verplan Hillmont Aller stratements the above what they do in stansartine and what they do in winnerstane, listen to due 'To Stansart' stange from France.	12 mins		Munic!							
	Day 7: Gather, Explore phenomena of Edst warsing different clearing far different suscess. (Optimal idea use to box of denormy clearing for the students to 'good' what suscess they are ready for) Day 8: Rasen activity endotes such activities to the susces. Lines to or sing the 'what do you do in the suscess'	32 mins									
	using." Day 9 Communicate Students does a popendall for the season. (Repeat this activity in each of the 4 main season, orders summer, full and winner.)	32 mires		Munic!							
ł				And							
	K13 & K14 Effect of Sunlight CANVAS K13 & K14 Effect of Sunlight Google Drive K13 & K14 Effect of Sunlight				Standard & 1.1 Carry and an investigation using the first series, to determine the office of satisfyte on different referenced materials. Transpire could include measuring transportants, through starks or about methods, researched and materials in reference measurements through the day 193320						
	Storger Litter E. L. & E. L. & E. T. A. Effect of Skinnigers. Larring Topol(): 1. Students will investigate place that are only on the and give masses for why 2. Students design a home/which which can protect an and from studigs, or relater warning effects.				netoch, envanuel and mais made maretals in ration franziers strongbour the day (1933) Standard E. I.4 Design a colorism for will reduce the warning effort of codigits on accura. Define the peddos by oking quantum and galaxing belownation, anney design franzisk davakes, dowings, or	Planning and Carrying out Investigations	Case & Effect	(PS) Large			
	Day is Phenomena. Take a pitcher of inice and tell the students that you want to make a provide, but you only have				ley eding question and galaxing information, unexy design from the definition, or physical models, and annupor and was designed (POLR, 1731.8, 1731.8, 1731.8, 1731.8, Teacher Resources:	Supplemental Resources:					
	(b) We assure the more various things that eval the used to make a specified- as its refer may populate sicks, a specified popular may populate may be more also true to plant the used association of the statement from the theorement wave real to be presented as a populate. Use the specified wave presented as a specified to the statement that used the plant may be plant as a populate. Use the specified wave presented as a specific to the statement of the statement of the statement that used to be statement of the statement that used to be statement of the sta	15-52 mins			THE REPORT						
LTER 1	Use the juice you have to make a populate. (Optional if you don't want to bring in juice, bring in a box of thereod other pope (have another one ready to go that's already from .)		Things used to make a popsicle,								
QUARTER			speens, popsicle sticks, ice cube travetc luice and popsicle			Engineering Design: 03K The Menster's Banket					
	Day 2. Phonomena video of reaking popoides and unjuy the popoides you made the previous day. Write is your readers journal what you would do to cross a popoide (push to have the standarshir cruzion, what duays will your popoide ba) Ans you going to add frait inside your popoide (Can you make a popoide with something other than juice?)	32 mins	making supplies. Hot things and cold things cards, infrared thermometer - optional Little Baby Busny book, crayons,			(Students create a blanket for a monster who is cold.)					
	popacts ter Ane you going to add fruit inside your popsicle? Can you make a popsicle with something other than juice?)		thermometer - optional Little Baby Bunny book, crayons, scissors Outside materials or			monster who is cold.) Supplio: Various fabrics to test for					
	Day is Gather, Per pictures of cold things and her things around the classroom for the students to find (Or read a book with her things cold things). Students will cut out and user images of things that an cold and her <u>https://www.pwr.jc</u>		building materials (if doing this inside) fabire, tape, aluminum	Ant		warmth.					
	Duy 4 Gather Studients go conside and find planes that are cool and places that are host and compare them. Tincher heavy our a board with various materials attached to it. The studients come and touch the items to find what is cool and what is how (You may use a infrared fluorementer to ppt stact temp if started.)	1 heur (can be split inne Zolays)	recycled materials. Science Kit has: ice cube tray, popsicle sticks, flashlights, feil, parchment paper, foam, filter								
	what is her, (for any use a infrared dimensioner to per searce tomp? Example) Days 5°T tore Sections world? Reasons THE shown proc. So say of the suddents have a per, what do pers need is order to be used and happy—Im up the dam discussion to happing per summit worker and each unsumer. Days 6 T kenness And do many of whom anothed hild their benome. Thus inverdance have halp hamay houle. Perter the link field why haveny books, read the book to the students, make the books. Students thick of durings for the showhows the students of the students of the students of the books.	32 mins	popyicle sticks, flashlights, foil, parchment paper, foam, filter runer								
	Print the little baby burnty books, read the book to the students, make the book. Students think of designs for the baby burnty home	32 minu	paper.	ELN							
	Day 7: Communicate Students will draw and then make a limb baby beamy home using either outside material (large, redge, stude, flowers, grass etc.) or materials provided by the teacher (libric, popsicle stick, domains of the many stress excess of the stude state of the student stat	31 mins									
	aluminum full, yam, tape, etc. Day & Communicate Studiest-discuss their basesphemes, was the basesy warm? day? achieves the sun?	32 mins		Engineering Build Engineering Test Engineering Robuild and Report							
H	Day & Communicate Optional Have students subsidial better businy home than the one they made the day before.	30 mins		Rebuild and Retest							
	K.1.4 Building a Shde Shelter CANVAS K.1.4 Building a Shade Shelter Google Drive K.1.4 Building a Shade Shelter				Nandard K. I.A Design a solution that will reduce the warning effect of conlight on an area. Define the problem			(PSI) Energy (FTS1A) Defining and Definiting an Engineering Feddem			
	Google Drive K.1.A Building a Shade Shelter This is a continuation of the boson plan above, but it can be ranghe in addition or upparely from the boson above.				by sdiag question and generating information, survey designs through develop, develop, or physical module, and surveyour and new designs (POLR, ETELA, ETELA, ETELA) Teacher Resources:	Conserving Explorations and Dropping Solutions Supplemental Resources:	Cause In Hillion	Podem (17518) Developing Possible Solutions (1751C) Optimizing the Design Solution			
	This is a continuation of the lesson plan above, but it can be taught in addition or separately from the losses above.				Texater resources.	Engineering Design: 04K Penny's Problem					
						(Students create a home for a puppy					
						who is too hot.)					
			Animal Homes (Usborne book) heat lamp, infrared			Supplice supplies to build a home for a puppy (can be natural outside materials twigs/leaves or can be more					
	Learning Target(s): 1. Students design a home/shelter that can protect an animal from studight, or reduce warning effices.		heat lamp, infrared thermometer, flashlights, Outside materials or building			materials twigs/leaves or can be more extensive materials.					
-	Day Is Phenomena Stadence watch a video of natural buildings (made by animale) series manmade buildings. Explore and read about different animals homes. Day 2: Scathered This Stadence's World Read the store of the doese Protect. See if stadence can identify what is wrong	30 mins	materials (if doing this inside) fabire, tape, aluminum foil,	ELU							
		30 mins	yam.etc Any scrap or safe recycled materials, masking tape, paint stir sticks, plastic table cloths, cardstock, fabric								
	is they have two grant with a starting stary tent as to possible them by the start is detailed. Day 1 : Reason 4: In a barrillary to this digits on a pice of black (clob) and pice of white clot). Show the endeem how the white cloth stary could than the black (clob). Discuss which the standarchow different paper of started collect different measure of heart. Talk and donso other surgest cool down the started in -for starph openy start on the dork, part seconding/bublicd the clob and in front of the clock to show what langucing cool.	30 mins	cloths, cardstock, fabric								
	Day & Reason Studentchuild a shelter frame (or have frames already built) have students choose a materials to go on	30 mins		Expineering Build							
	Day 5: Communicate Students chine a light ensight down on the deduce to see if it provides duade for Denny. Use a herefore a see Wile, do for the second second bases for the base.	30 mins		Engineering Test							
	The sharp priority in the same and priority of the same priority of the same priority of the same same priority of the same same priority of the same same same same same same same sam	30 mins		Engineering Robuild and Rotest							
	Quarter 2				Second of \$ 1.1						
	K2.1 & K.2.2 Survival Needs of Animals CANVAS K2.1 & K2.2 Survival Needs of Animals				Standard K.2.1 Obtain, evaluate, and communicate televentes to describe patrons of when bring these (plane and animals, techning homeon) evolve-service. Emphasize the technication and differences between the serviced needs of all bring things. Examples						
	CANVAS K.2.1 & K.2.2 Survival Needs of Animals Geogle Drive K.2.1 & K.2.2 Survival Needs of Animals					Obtaining, Endoating and Communicating Information	Parsens	LSLC			
	Optimal Start this set of Iwawa by having stadows grow plates in paper caps. Explore plates growing in scalight wreas plates growing in the dark. Start this experiment carly and wrane to it throughout the unit.	20 mins setup. netsen: for short 3 3 min sheeks ar 4	2		depend on plants or other animals to ensister (USEC) Rescaled RE21 Rescaled RE21 Rescale						
	Learning targot(s). Students find partners in what all living things need, mainly, find, water, shelter, air for animals and studight, minerals, water, air for plants.	plants prom			bare do drings day and Tamples could include investigating planes preses to calculate location and computing the results or computing azimuth with the planes day line. [332:31, 1303;14] Teacher Resourcess.	Supplemental Resources:					
	and sample in Personness Stadence barre how over set grav and lives do not set grav. Stadence mad/have the story Barr mater more.	12 mires		ELA	THE REPORT OF	Engineering Design:					
	want mon. Dy 2: Gathas, Stadent shiek about what they sat and how their pers set different things. White down the different things stadents come up with, set if they can get any patterns from what they have written down.	12 mins				96K Climb Every Mountain					
	Day is Research Scalesen watch a video of azimulo easing and next a series of cardeismo 2 groups, (How the students sort the cardeixlow important that the students being able to say why they setted them the way they did. If makenshare a good means for any they done that setting then its (out)	15 mins				Supplies: printed parts of animal and habitat book (provided in folder), tape,					
	Day & Communicate. Students sort animals into 3 groups a group that out plants, a group that out animals, a group that out both plants and animals.	15 minu				scistors, ribbon					
	Day 5: Parameters finished observations of the second seco	22 mins	Wants More, Shelter Cards	EL.P							
2	astends due nor due body as dedue. Use due second Shelter porrepoint is lown more about different animal barrow. Dry 9, Garbar, Studient lawn more about dufting and nort them into groups (animals that build durbar, animals that Find durbar, animals that nor their body as dollars.	at milli									
Quarte	Reg S Hearman behave have been seen and region de statuit Hearmach. How have the statust of the statust have been associated association. How have been associated aspeciated associated associated associated aspeciated associa	32 minu									
	Day % Communicate Student-draw ways that humans make and use sheltons. (Hard hars can be considered a type of shelton that protects your head.)	15 minu									
	K.2.1 & K.2.2 Survival Needs of Plants CANVAS K.2.1 & K.2.2 Survival Needs of Plants				Resolved K.2.2 Officials, realistics, and communicate information show pursues in the relationships horsess of shorts of all allowed to the planet shorts and an advantation of the planet short law. Employed the three glosp and waters are and reasons and the drop law in planet short and community of the shorts a sample of an advantation of the law (b) and by (120). 2003.						
	CANVAS K218 K22 Survival Needs of Plants Google Drive K218 K22 Survival Needs of Plants										
	Learning target(s): Students find patterns in what all living things need, mainly-food, water, shelter, air for animals					Supplemental Resources:					
	and analytic strained waters, also for plants. Operated J' yns had anaeg perfekt, when de Missense berevers plantspresteg to unlytic on les dools. De y 6 Missense Wark van der plant angestig fondropp. De y 6 Gallen, ander oan de hield an alwerg of a constraint of explant geneting. Denous with the date when a model for a plant and and and an alwerg of a constraint of explant geneting. Denous with the date when a model for a plant memory and an always and an always and an always and and a date foreign the aparts. Explandment for De y 6 Kanne Berg plant and have madel, including plant always and a date foreign the aparts. Explandment for De y for Berg and and a straint and an always and and an always and a straint and and a straint and and and and Misself and always are an and any and and an always and a straint and and a straint and and and and and and an always and an always and a Misself and always are an advected and a straint and an always are as a straint and	5 mins 30 mins		Ant		Engineering Design: <u>1958: A Rone by Any Other Name</u>					
	Day In Garlan / He to standards workd, Studiouts wat a sortex of pictures of a plant genering. Docum with the slaw what is usualed for a plant regime. Day is 6 Remains these plants and have studients identify parts of the plant and what functions that earthes (End <i>m</i> -b-m ⁻¹ -1	15-30mim	Gloves, Seeds (Bachelor			Supplies: printed parts of various plants					
	(b) (a) A standard and (a) provide an and a strandard strandard parts are used to be transmission on the part start transmission of the part and transmission of the parts and transmission of the parts are transmission. (Lear matter transmission of the parts of the parts are transmission of the parts	15-30min 15min	Buttons), Paper cups (1 per student), 1 pitcher for water			(provided in folder) printed top/middle/bottom paper					
						(1 per student) supplies to make flowers- pipe cleaners, paper, foam, tin foil (anything available will work)					
						cleaners, paper, foam, tin foll (anything available will work) tape					
	K.2.3 & K.2.4 Needs of Living Things CANVAS K.2.3 & K.2.4 Needs of Living Things				Sundard K.2.3 (Unite, endotes, and communicate information about how bring things [plants and animals, including laws and about the second systems of laws plants and animals, including the formation of the birth data final, plant source bracking concerns, or humans building sheltow. (ISSEE)						
	Google Drive K-23 & K-24 Needs of Living Things Google Drive K-23 & K-24 Needs of Living Things										
					Standard K. 24 Deeps and a consolitation as address, the offices that being theory filters and an Ook, in heavy the tool spectrum and the trapp momentum terms of the tool of the second based of the tool of the tool of the tool of the tool of the Exploring and the tool of the tool based of the tool of the second based of the tool of the second tool tool of the tool of the second of the tool of the STERA, ISENCE (TSENCE).						
					errowy dwigos through slavscher, dramings, or physical models, and compare designs. Emphasize students working from a plant, animal, or human perspective. Examples could technic a plant growing to get more sanlight, a beaver building a dam, or human						
	Learning Targets feadows will also make how astends affest or sharey that surrounding to samire.				aring for the Lath by many and mysleg natural measures (2003.C, 1733.A, 1735.B, 1735.C) Teacher P accounts	Supplant and B					
	Learning Targets Senders will determine here animals affector sharpy their summaring to convinc. Day 5 Sohne taken of source ladicarcenting a rest, Open (Seven parallel and Neuholth SERDATE (Corp)The waves bird has a very aning ment, degrees an where they built here and Towara all the different appart of where the sea is hads. The waves bird hads a could have picked are walkaret shown, why did it pick the main servick harg shows TW means bird and hadd to do india-				Teacher Resources:	Supplemental Resources: Engineering Design: 07K Home Tweet Home					
	way impose that, any year behavior may sum that it is a start in second and summarized the start of the start many second have placed as we without behavior, why did its plack the acuts more with long darma? The wearer field would be taken why dary as think it shows guest?					Susselius					
C La						Supplies: Supplies to make a birdhouse or a birdfeeder (Something as simple as a pinecone painted with honey and					
S.						pinecone painted with honey and birdseed works.)					
	Day 25 Carlow. Did you leave that animals and plants are construct Lea's or some construct animals. Animals bere cannide, shery can be represent are working, weaking in, hands conditioner-lack of feeds lack of waters. Lea's neglese different animals, justation stations with parador, saw with		Paper plates (1 per student), paint to color paper plates, 1 roll								
	paids, to tolky) Day 3. Animals use things in short eventuement to stay alter. Studients fill out the Problem: Solution charts for various animals.		string (1 section per student), jumbo popsicle sticks			Engineering Design: (68K Caring for Earth					
						Sunnliv					
						Students used recycled materials to create something useful.					
	Day 4: Wild kuns separate deging acores. Hask the Heron (https://www.postube.com/watch?v=1M54VA?vEQ) Day 5 plants can whe problems too. Day 6: Observations where seekless rechlems						Paners	(ESS3) Earth and Haman Activity			
	Day 6 - Okserve various plants solving problems. Day 7: Fill our problem valution charts for plants. Day 8: Menus solve problems was (Double Jah)										
	Day & Haman suive problems too. (Facele lab)										
_											

K.1 I F.X.2 Prove & Hotlen CANNAS EX. R & X.2 Front & Hotlen Geogle Drive K.3.1 & X.3.2 Fores & Hotlen	Bandard K 2: Monigan and a strain descent how a deep advance of the sector of the s	heg Net Solitary St.A. Columning, Evoluting and Communicating Information Following Following and Communicating Patterns Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary Solitary	1533) Earth and Hamane Accitity	
Lenum 3: Pash di Padh song, valoor. What is a force?	taught in Grades 3 sharaugh 5. (PS2A, PS2B, PS2C, PS3C)			
Lenum 2: Things I peak, shings I pull. Pask or Pull autorsy.	Teacher Resources:	Supplemental Resources:		
tues tong young did.		Englementing Design: (25% Artical-Kickgian Supplet: Student presents: softy on the plagment. Plagments: adoption is used-search, bills, scacher decide which activity to hore readonn participate is.		
ni art	ppendip, wada	Exploring Despec- tive Line Algorithms Singlear Singlear type I lance & down a block tower using a markle backet, they events a softing a markle painting events a softing a markle painting of the softing and the softing and the STEM DA Supervised, markles, blocks, paint, and Byrgel a rallowed bost for markle dwing schware,		
	nagnet wands, feathers, ms, balloons, cotton	tape, markers.		
Learn & Mapri Mars Learn & Medender Meiers balls.	nen, canonan, como			
Lawer 7: Mardenalow Motion Dd18.				

	I GRADE STEM STORYLINES				Englanesing Lemma and Street States and Annual Street	ala incui ina anatina kaonina finana ina dia ani mangan	d con locariton techanol				
	2nd STEd Module Storylines	Approx. Paring	Supplies availed (Every storyline supares a student journal) Mest Storylines we a gaugh studentwe, but it is not aburys required to use in	Cross Carolindar Activities	Unde Care Tane MIEd Alignment	Asience and Engineering Practice (027)	Cross Casting Translards (CC)	Desiplinary Care Mean (DCI) unles	Assessments	Quick Links to SEEd CANVAS Madules.	Quick Linda to Amy's Drive (geogle dides, student journal film)
Γ	QUARTER 1				Product 111 (Barlas					LI & U.3 HERE COMES THE SUN	LITE IT THERE COMES THE 22.N (PREDICTABLE MOVEMENT) OF THE RIN MOON & STARS.
	1.1.1, 1.1.2 & 1.1.3 Astronomy CANVAS 1.1.1, 1.1.2 & 1.1.3 Astronomy				Readed LLI Obtain, reducer, and summariant halomation shout for summarial the lim, lifeting, and uses to should sputification powers in samples of posmers and if another build be and blann sequere motion one power of the sign powers must de sign and we are show raws, other than the lim, we visible as night has non-during the destination of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of t						
	Google Drive 1.1.1, 1.1.2 & 1.1.3 Astronomy				part of the day mere some the sign and ere, or how more, other than the line, see stable as night has not during the day (EELA)	Obsisting, Evaluating and Communicating Information	Parama	(ESS1) Earth's Place in the Universe (ESS1) Earth's Place in the Universe		112 TIME OF YEAR	LIZITS THAT TIME OF YEAR IDSTTERSS OF SUNLAHT. OKERATE OVER A YEAR
	Learning Targets: 1.1 can find repeatible patients in the movement of the tan, mean and stars, 2.1 can create a device to monitor the movement of shadness. 3.1 can determine how the movements of the sam effort plans/thick has non-will be restated lates.) TARCHER PATIENT VIEWS				Associated 2.2.5 Biologies a device dura messames the ranging personnell deployte. Device the problem by a using personnell gathering indiversation, assurey designs the model, a deviceing, or physical models, and compares rail to see designs. Transplosses and include in models if we relieve for term or more than the model of the second second second second second term. Second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco			(1333) Earth's Plane in the Universe (ETSL-A) Dufining and Dubmiting an Engineering Problem (ETSL-B) Developing Penaldic Solutions			
					duratings, or physical models, and compare and our designs. Examples could relate standards for using the time or maching the moreovers of chadness droughout the day (1901). A TULA TULA UTULA	Community Industries and Division Industry	Denema	Solutions (ETSLC) Optimizing the Design Solution			LITURN ON THE SUNJECT OWNERS OF DWILCHT
	Lessen 1: Phonemena of the Sun string in the next and setting in the west.		Astronomy Sidohow, Draw a Model and Investigation (Astronomy Journal), PBS Video "Across the Sky", Vocab Card: Pattern		Teacher Resources:	Supplemental Resources:					
	Lessen 2: Introduction to fear and Speer		Astronomy Sidohov, Globe, Balloon, Vocabulary Canto gas, sun, earth,	den de Danner (Den sikde 23		Engineering Design: 00 Rilly Geam Fluff					121 SEEKITS OF SUNLIGHT ON PLANT GROWTH
			atmosphere, outer space, exeface	Are to Danset (Dar chile 23 teacher sones for supplementary article). Monipied San Constan 30(sh, Aberignal San Walking Up Danse and Aberignal San Dar Are	-						
	Louise (). The Earth 2: the Sam		Autoneony Slideshow, Globs, Flag/Pin, Hula Hoop, Horizon Sketch Page	Up Datar and Aborigital San Dat Are		Supplex Tray with water, small plastic animals, materials to baild a little raft				112 TURN ON THE SUNLIGHT.	122 & 12 TANIMALS & HANTLES
			(Astronomy Journal), Vocab Carde: planet, horison, orbit, rotatos			(aluminum foil, popsicle sticks etc.)					
	Lesses & Day Ji Night Domonitation		Astronemy Sideshow, Globe, Hula Hoop, Flag/Pin, Flashlight, book "Introducing Planet Earth."								24 4510415 5 5180764
	Longon 5: The Partors of the fam.		Panet Earth. Astronomy Slidoshow, PBS Video Santise to Sanset								111 THE SOUND OF MUSIC (HOW VIEWTIONS CREATE SOUND) 1326 VATURS 1771 E LIGHT OF MINE (EVERYMENTS WITH
			Armonore Sidobar Vidor Mooter Studens, Rock Rev Studen, Vorth Carl							123 ANIMALS AND HABITATS	LIGHT
	Lesses & Shalow Phenomena		Shadow Astroneony Slidoshow, Art supplies for shadow trackers, sticks, paper towel rolls, peol neodies, empty tin cars, strzws, masking tape, packing tape, hot glue gan with glue							124 ANIMALS AND SURVIVAL 131 THE SOUND OF MUSIC	SOUND OR LIGHTS
	Lesses 7: Tooling Shalows										
	Lessen 3: Plantament Star Plantament Lessen 3: Gather Star Farn		nance, panes, tarje, pomot tohan Antroneeny Sildohow, Fahilights, Readworks Article "Why don't we see stars in the daytime!, black construction paper, white crayons, glas, wocab card: stars. Astroneeny Sildohow, vocab cards: stars, dusk, dawa, universe								
	Louise 30 Mann Phonomena Louise 11 Menn Fann		Antronomy Slidoshose, moon phases video, lunar cycle 1, lunar cycle 2 Astonomy Slidoshow, vocab cards: moon, moon phase							134 CAN YOU HEAR ME NOW?	
	Lessen 12: Mess Phases		Astronemy Sildeshow, 5 signs (one labeled "SUN" four blank), hula hoop, globe, flashlight								
			Autonormy Sildohove, daylight data chare, PBS video: Starties Sensut Sammer and Witzer, Article "Samte, Samoe" and "The longest and discuss day", video reason for ausone, Holghight, for lamp with constructs corely, dark neuro, styrolim hall, large mzw, rubber band, fleahle plante cap (5.5m), scinore, tape, thamback or steky								
	Laura 13: Summer Plenomera										
	Louis 16 Temperature		Astronomy Skideshose, Temperature data chart, Earth model, Vocab card: temperature								
ŀ	Lossen 15: Plants and Stations		Astronomy didubow, Plants in Stations collection (get epic), plant cards to sort.		Junderd J.J.J Globs, endows, and communicate						
	1.1.1 & 1.1.3 Sun Patterne/Here Comes the Sun CANVA5 1.1.1 & 1.1.3 Sun Patterne/Here Comes the Sun Googie Drive 1.1.1 & 1.1.3 Sun Patterne				Renderd J.J.J. Obtain, reduce, and communicate indicension about the merometric of the law, blown, and one to dearbit predictable process. Examples of potentia could include how the fam and Moon approximation are one of the meroscore dearbits and the set.						
	Google Drive 1.1.1 & 1.1.3 Sun Patterns				part of the day meet sense the day and any or how more, other than the fam, are stable at sight has non-during the day (ERLA) Residend 2.3.1	Obsisting, Brelasting and Communicating Information	Parama	(ESS2) Earth's Place in the Universe (ESS2) Earth's Place in the Universe			
	shadows caused by the most spottern of motion across the sky.				(a) (PRIA) Resident i.1.1 Bedges a four data measures dat surping parameters desights: Define dat problem by aking parateurs and palweing information, source biographic desight desights designs, ar physical models, and compare and we designs. Transpires sould holder and deliver stilling the states or marking the measures at idealized weakful and the stilling that these or marking the measures at idealized weakful and the stilling that these or marking the measures at idealized weakful and the stilling that the state of the state of the state of the state of the state of the state of the state of the state of the state of the state			(ESS2) Earth's Place in the Universe (ESS2) Earth's Place in the Universe (ETS2.4) Duffning and Dubmitting on Engineering Problem (ETS2.8) Developing People Solutions			
QUAKITR 1					(DEER ITELA ITELA ITELA)	Community Implementary and Designing Solutions	Patama	Solutions (ETSLC) Optimizing the Design Solution			
QUA	Lemma Is Plennmang Taplers Plennessen of 28 hears in one leasting (service) more/or use web, Table & Bendel. Lemma 3: Gather Tale the second constitute so record dimensions for the use's leasting. I suggest that you speed this next one multiple V with time downshow the day.	30 min 1 hour	Computer (for watching phenomena videos, shleehow and answering quastions), medere joarmal, chalk, paper plane, colored parcile or marker or enyons, scisoes, ngyelar pencit, Sade Panels, LEB Upice, hurnites, estat panels, aliganor chys, modeling chy, houses and neighborhood plot, flashights	WONDERS Mean de May	Teacher Resources:	Supplemental Resources: Engineering Design: 01 What a Wooderful World!					
	and other maniper 5 was a more consequent to each		modeling clay, houses and neighborhood plot, flashlights			01 What a Wooderful World! Students use create an instrument that					
		50 minu (mark for split 10 minute meeting, hands, afternance mark often is (sense)	optional: Squidy Circuits, modeling clay, playdough, barnetics			can wake up the roester when it's morning time.					
				Nation Florida		Supplies: materials to make a small instrument.					
	Lemma 3: Gather Tale the modul contains a record observations for the surf. Isoation. I suggest that you speed this out over multiple 5 with interchangement the day.	50 minu (mara ke upla 10 minute mensing, karah, afarenana - mar ofices k baraw)	•								
	Lemma is Gather Fields recording observations for the card location on your conduct.					Engineering Design: 02 Summerine Sana					
		30 minu januar kerupita 10 minuta menang karah, artematan men artem kelamat				Students learn how seasons in the northern hemisphere and in the					
		ofice. is herear)				northern hemisphere and in the southern hemisphere are opposite of each other.					
						Supplies Madlibs cards					
	ele lines shange heighte? Lenane & Kennen Klowe the workshall business are reiter to use the information they advend from the randomlare	30 mirs									
	Lenson & Reener (Deep der soch de.) Studien aus geing seiner der Softmanten der sehlerte diesen Alexandricus plane zular punch seicher sondhigte. Instudien als seine Alexandren annen anderet wirk a W. bennye auf als LLD Juge. Steven der der diesen kommen under gelannen plane als dasse punch. Canzy zuge der higte seichter under gelanzen?	30 mirs									
	Lease 3: Nonlinea over and deserve a send linear. If shore on time, wakes any proves of a smill heave (or here a parent volumer do doi). Lease 3: Communicate Have realism, plan their safer particus their heave and we in contails. Con you go the light	30 mires									
	er denet Eensen 9. Communicate Hare enderen, ge eenside ood plaar their hower en die map. Studiens de ide what die how plaar is nem die oder panel seit e aar onde die manifejen.	30 mirs									
ŀ		,00000			Austral 112						
	1.1.2 Petterns in the Skylit's that time of year				Reserved 3.1.2 Oftenia, exchange, and communicates indermention doesn for provense downed at different serving of the proven selves that measure of dieffight socker time of year. Emphasiser due contains in dieffights socker time of year. Emphasiser due and different services of the year Kompoles social individual and different services of the year Kompoles social individual						
	1.1.2 Patterns in the Skylit's that time of yearl CANVAS 1.1.2 its that time of yearl Google filler 1.1.2 its that time of yearl				variation in deplot parama an althream time, of the day and different times of the year. Examples smild include varying learning and regions drengthese doe new, sourcey and workd. (1901.8)						
	Learning Tarrets I are find rearran in delative and stars of		Dark and Light charts/cards		Teacher Resources:	Onating Industry of Communicating Information Supplemental Resources:	Parama	(1331) Earth's Plan in the Universe			
	· · · · · · · · · · · · · · · · · · ·				ALARMA REASON	Engineering Design: 01Groundhag Day					
	Lemma 1: Plennamena Stations work timelapse rides of sectors and seven and silk down their observations. They then wants wides with down milingin in which the sector down's us.					day and compare them. Overtime they					
	and a second second second managem on which we say should be a	30 mires				look at all the pictures to see how from one day to the next the days look the					
		Nosies				look at all the pictures to see how from one day to the next the days look the same but if you jump freen one day to several days lamt the days look					
		Nosis				Students take pictures outside each day and compare them. Overtime they look at all the pictures to see how from one day to the sace the day look the same but if you jamp from one day to several days larer the days look different. Supplice you can take pictures of small					
	Lanam 2. Statistics Theorem Trackons limit at high and data chars and angage in eachers discussion along when to high methods another	Jonin 1 hur									
	Lemen 3: Genher Theome Nachen Inde at light and del homes ad appy to a close down show when it highs and del constitu- Lemen 3: Communities Nachen are given candidate also "Direction del design down" (m) "Direction herero "Anna" and the Anna" (m) field data survivames (m) field data survivames (m) data data data data data data data dat					Supplier you can take pictures of small					
						Supplier you can take pictures of small					
	and die annel. Lanzen Schammenheiten besteren zur gener zureicher Teilen bin des die des gebenet" (na.) They freie konnen "ernet" ennen die "werkt" plannens (werholder ernerst kontin. Operant 2				Product 112	Supplier you can take pictures of small					
					Parallel 1.1.2 (Balance Andreas, and a Marcalance Andreas de parama, descritor de Alfrance Andreas (Andreas Andreas Andreas Andreas), and a Marcalance Andreas (Andreas and Alfrance Andreas, and Andreas Andreas Andreas Andreas Andreas (Andreas Andreas), and and Andreas (Andreas), and Andreas (Andreas), and and Andreas (Andreas), and andreas (Andreas), and and Andreas (Andreas), and andreas (Andreas), and and Andreas (Andreas), and and andreas (Andreas), and and Andreas (Andreas), and and andreas (Andreas), and and andreas (Andreas), and and andreas (Andreas), and and and and and andreas (Andreas), and and andreas (Andreas), and and and andreas (Andreas), and and andreas (Andreas), and and and and and andreas (Andreas), and and andreas (Andreas), and and and andreas (Andreas), and and andreas (Andreas), and and and and and and and and and and and and	Supplex you can take pictures of small animals or toys is warned.					
	near SC annual the birth on proceedings of the "United the large short" (see The The Schwarz S				Readed 2.1.5 Childrander and the second seco	Spylic you can the picture of small animals or rays is warned.	Nerra	DBI fadi Ayrık birre			
	and die annel. Lanzen Schammenheiten besteren zur gener zureicher Teilen bin des die des gebenet" (na.) They freie konnen "ernet" ennen die "werkt" plannens (werholder ernerst kontin. Operant 2		Cold (spring) and look (for along unity inwork)		Readed 2.1.5 Childrander and the second seco	Significary you can take persons of small animals or toys is warmed.	heen	(1980) faceb, Hare to de Universit			-
	er en	The	Chall (sprined), using, multitude (for adding antity) invests)		Restort 13.2 This is a start of the start of the start of the start the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the	Significary you can adar pieranos of scali astinalo or rays is warned.	***	JHE Individual View Individual			
	near SC annual the birth on proceedings of the "United the large short" (see The The Schwarz S		Call (prior); orig, and loak (for esting antisylamod)		Restort 13.2 This is a start of the start of the start of the start the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the start of the	Supplemental Resources of well astandor roys is warned.	hen	(910) hads Plan is de Danne			
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Querer 2	I we can be an experimental state of the second state of the secon	3 has	Chak (spinod) oring ned leak (in eding antisylmood)		Reserved and a second s	Signife you on the permuted permuted and a second s	Net				
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Querer 2	I see a see	3 has	Chall (spitned), using, med bask (for adding antisylamusk)		Restarts	Supplement Researces. Report of the second					
Qurrer 1	I see a see	3 has	Outh (spinal), using med heak (fe arking uninylamusi)		Restarts	Supplement Researces. Report of the second					
Quire?	I see a see	3 has	Och (spinal), only, mail lock (for alting antisylamost)		Restarts	Supplement Researces. Report of the second					
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Queer 2	I see a see	3 has	Chell (spriner), error, med brak (for arking entropienesek)		Reserve and a second se	Supplement Reserves. Supplement Reserves.					
Currue?	I see a see	3 has	Chall (spined), uring med leak (fe arbitig animylamosi)		Reserve and a second se	Supplement Reserves. Supplement Reserves.					
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Quere:	I see all a second and a second a sec	3 has	Chall (spinard), using, multitude, for antitude antitud		Reserve and a second se	Supplement Reserves. Supplement Reserves.					
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				and the second second second			
RST GRADE STEM STORYLINES				Felowed prove and service and and		Constant and Steve Technology	
Leases 2: Gather Fay as conside game: The teacher will call out as axied name the lash, response with that axied name or all					Engineering Design: 06-loc Creant		
					Students uses patterns to classify ice		
	15.50 mim				Students uses patterns to classify ice creatus.		
					Supplies les cream corse printables,		
					pictures of humans from around the world, paper and scissors (real ice cream is optional).		
Terrer & Kenner Mark and Alberta and a black	11.02-00-		Daned		cream is optional).		
Ensure of Communicate States and a case and prevents may. Ensure is Communicate Thire down your foreits budy axies and and how it is similar to the purest (Draw the budy	Numira						
actional which the parents)							
1.2.4 Animals and Survival				Familied 1.2.4 Construct on replaneten of the person in the behaviors of persons and off period which help			
1.2.4 Animals and Skrywel CANVAS12.4 Animals and Skrywel				Randod 1.2.4 Construct on explanations of the process in the bidenism of permus and offspring which help offspring to survive. Examples of Technical permussional include the signals that all spring made such as a spring deletion, and other workpring are the resonant of the			
CANVAS 1.2.4 Animals and Survival Geogle Drive 1.2.4 Animals and Survival		Muserials needed abarrening rubber slower million baaries band of its water rubber		parent such a duding conducting and protocologistic edlipting (131.8)	Constructing Explanations and Designing Solutions P		3.82) Moleculas ne Organisma
Learning Targets I can see parameter in industries formers parameter and offspring. Learner 1: Phenomene of a red for whitting for its more and look at helv asterals being caref for by their merrors.	Pairs	Materiale needed: shortening, rubber gloves, gallen baggies, bowl of ice waner, rubber bands, foil. Kinetic sand in a deep container (at least 5 inches), pet rocks (Rocks, Patrit, foathers, file), heat lamp.		Teacher Resources:	Supplemental Resources:		
(Bradeen Journal page Tohore a baby)	15 mirs	Patrot, feathers, felt), heat lamp.			Engineering Design:		
					Engineering Design: 07 Doo't Talk to Strangers		
					Students learn about being safe and		
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					parents.		
					Supplies puppers, bandais, role-play costrames		
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1.3.1 The Sound of Music CANYAR 1.3.1 The Sound of Music Storgin Drive 1.3.1 The Sound of Music				Numland 133 Plan and corey one an immergerism to show the course and effices to larison dop between sound and schwaring manys. Implusion that vibraring manys can make			
Googin Drive 1.3.1 The Sound of Husis				summers annyhouse that vibrating matters can make sensed and that sound can make matter vibrates (2016. A)			
Learning Targets I can investigate how obserious create sound.		Metal hanger and string (1 per student) READ THE INSTRUCTIONS CAREFULLY IT'S VERY IMPORTANT TO TO THIS EXPERIMENT		Teacher Resources:	Supplemental Resources:		
		CORRECTLY Take the string and wrap it very lossily around your fragers, hang the metal hanger from the string. PUT YOUR FINGERS INTO YOUR EARS.					
		the meal hanger from the string, PUT YOUR, HNGERS INTO YOUR EARS. Genely tap the metal hanger against a surface. (If you do this correctly you will har a LOUD surrey wHoOo WHeeo WHOOO sound (sound vibratiens from the metal					
		LOUD watery wHoOo WHoOo WHOOO sound (sound vibrations from the metal hanger to your sar)-SO COOL! If you do this incorrectly you will hear a small twane-					
Lesses 1: Phonemena and Jerroduction to useral, students with a second vibration when our electron		hanger to year ear) 80 COOL1 If year do this incorrectly year will hear a small twang- not cool. Boomwhackers, jumbo straws (1 per student to make a whistle), sound sticks, vabber			Environment Designs		
using a metal hanger and string.		Boomwhacenes, Jumos urzawe (1 per entastert to make a sensitie), sound strucke, rutester bands, shaker bands, paper caps (1 or 2 per stradent to make a shaker), noethpicks, sound maker phones, uperfailes, bowls, clear plastic wrap.			Engineering Design: (8) Orieker's Ching		
					Students use create an instrument that		
	15 Sheim	Take the plastic wrap and stretch it acrow the top of the bowls, secare with a rubber band if needed. Sprinkle sprinkles on top of the clear wrapped bowl and hum next to the bowl- the sprinkles will darce.			can create soft and load sounds and can tell how to create each.		
		the bowl- the sprinkles will dance.					
					Supplie: materials to make a small instrument. Dancing scarves or ribbon rwirl sticks.		
Lessen 2: Gather Exploring Pitch usingglass jon, chimes, howevehackers. Lessen 3: Gather Moning objects with sound energy, studiest hum to get sprinkles to more on a plastic	30mirs				rwirl sticks.		
Lessen 3: Gather Moving objects with sound energy, student hum to get sprinkles to more on a plastic weapped local.	13 mires						
wapped how! Lesses is Gaber Bology of the Haman Yar, students down as or. Lesses Vie Razon Monial Incomment study student oract rescial instruments.	15 mirs						
	15 minu 1 hour		Maniel				
Lessen 7: Reason Drums	15 mins 15 mins 1 hour 15 mins Nonice		Maria!				
Lessee 7: Rassee Down. Lessee B. Camazakate How the students build as interasters.	15 mins 1 hour 15 mins 30 mins		Maniel				
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										2116-212 EARTH'S SURFACE.	(LANDFORMS)
	Google Drive 2.1.1 & 2.12 Earth's Changing Surface	13 mins (may combine with the next lenses)			Resolved 3.1.1 Develop nel ne modele llaseratog de person el las llas nel suor as Las h. Europia al modela andé Halder silley, anyon, as ficolofísicand andé depis vane in de add a legal seus (ER33)		Developing and Using Medich	(1003) Lards's Spresses		213 LAND CHANGES	213 LAND CHANGES (QUICE & SLOW LAND CHANGES)
	Learning Targets 1.1 can employ how write ensure values, corpore and Hondplates. 2.1 can explain how the Earth's surface changes spitially and showly.				, , , , , , , , , , , , , , , , , , ,			"nurri enur siteme			2216222 HABITATS & ANIMALS
	Lemma 1: Phonemena Studiesis explore phonemena of Grand Caryon Formation, analybiles, archive	30 mins			Resolut J.J.J. Concessos on explanation desarch argenic Tarth's nation that happen spikhly or darshy Imphasise the semant between the analysis of state phases of the charges available indexis meptions, methodak or hadded. Tampin of door charges available date to ression of meansaincer the haping of corputs.						223 HAND POLLINATORS STRUCTURE &
	Sinderits compare different landforms from a perception. Lenna 2: Cather Sinderits complete an opportunit on excitor from wird.	30 mire	Real P. S. Or		Teacher Resources:	Supplemental Resources:	Community Explanation and Designing Solutions	(1882) Earth's Systems		2.2.4 BIOMINICAY	223 HAND POLLINATORS STRUCTURE & FUNCTION OF ANIMALS/BREDO 224 BIOMINICHY (SLOW FROMANS MEMIC NATURO
	Leases & Cather Sindexis complete as experiment on cruster from water. (Not bled but this carbin cather of dom on time.)	at mine	Rateri Robe/Map Show Jone (our per vitaline ar group) Supplier to make a landscope (foam, paper, glan, tape, reeip, ma)			Engineering Design: 01 Keight's Tale					231 PROPERTIES OF MATTER
	Lesses is Researchedown play an order generalized Dear's Hood the Folgen. (Cheme in skip thickness on the out-below if short on store) Lesses 5. Supporting Pleasaments there the pleasament risks and discuss ways to proton a home from example downs.	it with	may Hanta Ban Sand (if datare Carde Freener)								212 BELONG A BEDROKSE PROPERTIES OF MATTER INFLUENCE FLOCTION 2331E00 HOTEL OBJECTS CAN BE DEASONFEED AND RESIDENTS
	Lesson 5: Supporting Planamena More the planamena video and discuss ways to protest a losses from a natural discuss. Lesson for Rasson Student plan and build their torues.	30 minu 30 minu	Heats Box Send (of data Cashi Keepers) ware paper data (defi rema-from paper paracher) <u>Gas</u> upplies to field a small boxes a stores, populade sticks, supe			Engineering: empathize with a knight who's map was burned by a Dragon. Social Studies 33 OZ, Arr and Geography. Students create a map for a Knight to be able to find a Caetle.					214 Inc. State Concerns and Stat
			. upplieste luidi a und konse stares, popula stala, sup Handield fans, pipetes			Supplier An Paper Colored Pencils Pen/Markers					Louisia In Heating & COOLING
	Leaner 7: Reason Test die terrer.	30 minu				Various maps (helpful, but not required)					
				Engineering Backl							
	Lesson B. Communicate feadown rebuild their source, not server. Lesson 9: Communicate Feadown rebuild during of their source and arrown parentees orders.	30 minu 30 minu		Englanning Test Englanning Rebuild and							
Querter 1				Roand							
my l	2.1.3 Land Changes CANVAS 2.1.8 Land Changes Google Drive 2.1.8 Land Changes										
	Google Drive 2.1.8 Land Changes				Teacher Resources:	Supplemental Resources:	Communing Explanations and Designing Eductions				
	Lemma 1: Pleasances frombers over a variety of earth inter-patch land changes or show land	Statis			Standard 2.3.3 Design substances sizes as prever wird as wave from changing the shape of hard. Define the publics by adopt proving and galaxing information, sourcy designs shough develop, or physical works, and compare and we designs. Insurplical adoption and include sensing wells, disc, withfreeds chards news, and reaves additional Without States and additional A. 1970. LTML STUD.	Engineering Design: 03 The Cartle Keepers The Cartle Keepers tracher instructions					
	Leans 3. Gather (prior kneededp) Students coppy in a descense diversity along the quick	Nain			WINDOW, MAR, HIS, MI, PAR DI SAMAR WIN, MIT, MITMA (MIA, 1997, 1997, 1997), ITH Q						
	Lease 3: Garker (prior kaserie/og) finadors organ in a dorson diversion does the quick and does hard doego and if does shops over malely trues, while it human ensists. Leases 3: Lease Schwarz Marchines schwarz ered from interference and up to some year the protor some schwarz human ered does a prime, we're schwarz ut like they would enginese a values are proven as mains one well into happening. Leases 1: Garker/Karam Simbon lock a varies strytche human ered hely to prove avariant	liter				Supplier 1 bag playground sand (a little more than 1.5 solo cups per group)					
	register a solution to prevent an ensiste sense from kappening. Economic Gather@EconomicSoulous.look at various ways that homeors can help to prevent remains.	llear		Engineering Balid		1 container per group (1 used a small tota, tinfoil 9x13 pans work great as well)					
	reasion. Exercise V. Reasons freedowice receptory is an explorenting lab using well, expr, weeks and other materials to try to discontine how to prevent will from avoiling away. (17 peakshi, how makines grow plants, as part of bits requestioned and servers to its a free works after the plants have had time to grow.)	75 min	Sand, 3 pitcher for water, publics, fish bands, obter ands, pop- beride (3 minimum with olds car out), more cars	Engineering Test		prop) prop) 1 consister per group (1 used a small son, tinfol 9:13 pars uods pur ar swall) 1 solo cap per group Eaps access to remaining water Paper, popside eticle, etilig, tessue, comon balls, plantic bags Parters of the Other					
			(1 shire well and 1 paper cap per station)			Engineering Design: 02 You are not Alone					
		75 mins				Engineering: empathize with a family who has been separated because of a narraral dissurer. Science 2.1.2, ELA, Social Studies. Students identify a cultural tradition (food, coldentation a holidar. etc.): write a letter to family solling them					
	Lesses & Communicate Insident lock at piercen from surrouplant annual der weld and sy					colebrating a holiday, etc.), write a letter to family telling them that you are okay and will see them seees.					
	Lensen 6. Communitation fundamentalisment and an aptivation former starting places assumed that world and sty- te adversariate when type of restricts consolidates particular limitions as the model. Students them use the transformationships have collected to: fill its an optimism segminer and complete a doort paper on errorism.			Engineering Refeatil and Refeat		Supplier Paper and Pencil (You can make the cultural tradition part more involved if wanted.)					
+	Querer 1 2.2.1 8-2.2.2 Hebitasia 8 Animalia				Sended 3.3.1						
	2218 222 Habitata & Animais CANVAS 221 8 222 Habitata & Animais Google Drive 221 8 222 Habitata & Animais										
	Learning Targets I can identify shellar frames in animals that fire in similar places (i.e. For some for winey animals there with fire construmt.)				Teacher Resources:	Supplemental Resources:					
	where animals, duay web its constraints.) Lemma 1: Phenomena Stackers investigate pairs (hare, they four allows thy polar heat. Its where day do, thy store and label a polar local, and they are inmediated as the weak halton.					Engineering Design:					
						Di From the Meanuins, to the Prairies, to the Occurs					
						Engineering: empathize with figuring out were an animal lives based on what it looks like. Science 2.2.1, Social Studies. Studentswick a fivedea azimal they karn where that animal					
						based on what it looks like. Science 2.2.1, Social Studies. Studentspick a five-tote animal they kann where that animal lives and cuase a picture (or a sculpture) of that animal in its correct habitar. They place their animal in the correct					
					Obtain, evaluate, and communicate information about patterns of loving things (plants and	location on a large map of the Earth.					
					and and water habitats. Examples of patterns in habitats could include descriptions of temperature or preceptations and the types of plants and animats fromd in land habitats. (152 C 158 C, L58 D)	Supplier colored paper, glue, other small items to make animals such as grouply eyes or fluff/fur.					
	Lesson 3: Cather (bylis issue) or more lesson) binderse replace different holison around the world, day product and game what animals and plane. The is the different holison:					Engineering Design:					
						05 Consider the Lilies					
			All upplies are principle.			Engineering: empathize with people who have disabilities. Science 2.2.2. Social Studies, Social Emotional Learning.					
						Students look at different lifes to understand that even if they look different, they are still lifes. Students look at different					
						Engineering: empathine with people who have disabilities. Science 22.2, Social Studies, Social Emotional Learning. Studerns look at different lines to understand the even if they look different, they are still lines. Studerns look at different horamans-we are all homans. Students holds a engineers to show that everyone is an important part of the team.					
	Lemma 3: Cather They replace strend worlds (if you have access to a VK, headers, shis is a good place to use is (They developing an Advan access access).			Ard		Supplier pictures, song building materials (small instruments)					
	11 (19) anticipant in Article section attention. Lensen & Esseen, Communicate Thry silk short resources and functions and effect them to ensure power-from Wild Koren. They complete a matching generators to functione gene.				Inside 2127 Reconform as a boundary of decays						
17	Lesson & Phenomena Instance here about the unione structure Venction of secondary				Standard 2.3.2.19 in and carry rate an investigation of the structure and function of plane and animal parts in different holison. Emphasize have different planes and animals have different constants to wardwise the the data. Examples could include the dather states of a states in the data or or the warded charges in the fare state of a weld [3.32.4, 1.36.4, 1.36.12]						
Quart	Lenses § Pressure statistics care and the unique research variants or animality. Lenses & Cather They descare a lowerly suitible k in the sum. They issue here a lowerlow Hare changes in the soft adding difference waves. They are investment to puty produce and game which animals are pery and which are produces.			Dramal							
	or pay and which are positions. Earnes 7: Earnes Teatman builton larve shout the unique area rane/function of axiond earth. They have about modes, beiness out andows. They filters we a very shout axiond such and play agains of axiond was. Earnes 10: Earness 10: Earness Internet fractions compare proceedings from around the world. They complete an axiond to a state of the stat										
	Lenne & Communicate tractors compare perception from around the terms. I step compare an annual Househalt. Erman & Communicate They there dute finished half with other andron and complete a Youn disputs comparing the common.										
	2.2.3 Hand Pollinstor				Tunded 2.3.3 Evelop and we a mold that minists the function of an aximal dispersing with or pellowing plane. Tuneples and disabatic plane that have week with backs or barls that anath						
	CANVAS 2.2.3 Hand Pollinstor Geogle Drive: 2.2.3 Hand Pollinstor				downalow so asimi fan, fantow, or human clothing, or disposed doe nigh die wind, or o meampris of finis and the disposed of the pin-or sends (EELA)						
	Learning Target I con minic a politones.				Teacher Resources:	Supplemental Resources: Engineering Design:					
						Engineering Design: 06 Hard Polinanary					
						Engineering: empethize with a girl who needs her plants pollinated. Science 2.2.3. Students created different hand pollinators and pollinate paper flowers.					
	Lemma 1: Phonomena finalmets work a value of politicators (instant, but, birds) and at the					Supplier Same as science lesson. This lesson is similar to the Hand Pollinator science lesson, but with an engineering					
	Lease 14 Performance that is no sub-scale of phases in grant with which and and a scale interpret to the scale of the scale of the scale of the scale of the scale scale of the scale on a scale of the scale of the scale of the scale scale scale of the scale of the scale of the scale of the scale of the scale scale of the scale of the scale of the scale of the scale scale scale scale of the scale of the scale scale of the scale scale scale scale scale scale scale of the scale scale scale scale scale scale scale phases of the scale scale scale scale scale scale scale scale scale scale scale scale scale phases. Scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale scale		masking tape, reason, text tables, settors halls, poor poors, pipe channes, forpylomentary back to read. The Thing Almost Bars: A Loop Letter			approach.					
	a priorite to ensure a process of a state to water traces and real information to find out what an appendiculate engineer stally is, they draw a priorate of a real approximational engineer. Lemma 3: Rannan feadroom lases about here been publicate and do the here mapple dates.		Bass A Low Long	Danael							
	Lesson is Communicate Supporting Phonemena Studients leave about pollow, pollowators de pollination. They have the story of Markana and the plans. Lesson 5: Supporting Phonemena/Cather Studients dear and label a flower edam, tal ^{6, about}										
	pullination. They have she not of the story of here Matterna makes a hand pullination. Lesion to Gather Students per ready to make their area hand pullination by testing rations materials.			-							
	Lemma 7: Ramon Actgo the students one of the 4 plant types or allow students to test all 4			Davart Engineering Baild							
	areges. Lesson R. Rosson/Communicate feadores down a despe plan of a hand politator, doy hold the politator and test is.			Engineering Test Engineering Releated and							
	Lenne % Communicate feadors improve that hand politicates design, they area.			Rebuild and Rebuil							
	Querter 3 2.2.4 Momintery				Incoded 2.2.4 Design a solution to a horner problem by minicking the sena rate and function of planes and/or attack or they are their strength on a solution for the sena of the second set.						
	224 Nominiary CANVAS224 Nominiary Geogle Drive 224 Nominiary				Stanled 23: L12-big a scherin on scherner problemby minisking for sensores and function of plant and/or anishes and/or only on order investing one coledpoint meetings gave, and point of the stank. Divine drap public pointing particing plateing plateing plateing schere stanks, and an experiment of the plateing plateing plateing schere standard meeting of the schere standard for an order star star schere standard meeting of the schere star star of the schere schere entroning (for SLAL SLILS STEEL, SLES AL STEEL).						
	Learning Target: I can solve a problem by ministing a plant or animal.				ninning in (ARA DAD, TELA, TEL	Supplemental Resources:					
	Leases Is Phenemena Studencept to read (or here read to them) the book Nature shifts Fire, they also watch the Bineminiey Storg					Engineering Design:					
						17 Remaining Environmentary emethics with a serven who is either too hot or					
		15 min				Engineering: empethize with a percen who is either too hot or too cold contide. Science 2.2.4. Studentscruze a mini hat to protect someone in different types of weather using biominicry idea.					
	Louise 3: Gather Students take these from the back and as out different astends to show the structure, Startion and Istentiniary.	Stain	Nature del is free loods, Weld Backlungs and Bridges, Communities Paper, Hot, Faloria, Launday elips, 3x3 sards, annatoludis	Dund	mannes suild a stay hat her a tennischall head.	Supplier Same as science lesson.					
	structure (function and bicontextury. Leases 5: Cather/Reason fundemonder matching order and much the animals structures to the male must historicity. Leases 4: Leases scalaring or a conserve with and observe here different plane, and azimals are	15 min	menticals								
	mair nan annanny. Lenna is Romanickong e na ranne velk and observe how different plans and animals are pontened from andight, natural visid. Lennas 9. Communitatis finalment new series menetish for bleiding melighe, rate or wind. Lennas 6. Gabere/Razam Studion deve e design from conting e ba.	30 minu								_	
	Leases to Gather Reason Students down a despt from couring the. Leases 7: Reason Students build a has and over its Leases In Communication students improve and reset share design.	15 min 30 min		Engineering Backl Engineering Text							
		30 min		Engineering Test Engineering Refeatil and Refeat							
	Lexan 76 Communicate Alexandre Alexandre Society Studients build a set of Instandly wings and record lowering it take the wings to flust to the ground.	hour on he ople over multiple days		Engineering Design 2.							
	2.9.4 Demostles of Matter			OE, GALA	Readed 23.31 Phase and any not as increasing on a closely different lands of search band any promite their descendary properties. Therefore, and it include serving search band on studies properties with a mergin scheduler, bankney, searce, or where the marries are schedure descent and a second search of the search of the search of the s						
	CANVAS 2.3.1 Properties of Hetter Google Drive 2.3.1 Properties of Hetter			MINIEAL PD is an Bryer Himan		Supplemental P					
1	Day's Solds, Liquids		Corpor molds, I por, electric hesplate, was		Teacher Resources:	Supplemental Resources: Properties of Maner and Minerals - You will have access to this only if you arrended the loose in the lab PD					
Gum						Engineering Design:					
						08 Venerane and Soldiers					
						Engineering: empethize with soldiers who defend their country. Science 2.3.1, Social Studies, Dance. Students learn					
						Ergbording empehan with skillow who defined their country Science 2,31, Sociel Stradies, Namo, Students Rame how sokilaru use different materihafer different razone, and how we use different materials for different razone, and how we use different materials for different razone, and how we use different materials for different relationskic Students cause a different for the state of the student Student cause and did using different emploits: colore or materials. Student participant is a game (dance) where they now around the most to set themselves based on the colore or material of their shield.					
						Students create a shield using different symbolic colors or materials. Students participate in a game (dance) where they					
						move around the room to sort themselves based on the colors or material of their shield.					
						Suppline shield making meurials (cardsteck, cardboard, paint or colored paper and gine sticks or taps, ribbon or other makerpace materials.)					
	Day 3: The way things sharing: Day 3: In Cale Investigation					makerpace materials.)					
	2.3.2 Building a Birdhouse CANVAS: 2.3.2 Building a Birdhouse				Translard 2.3.2 Conservant an explanation showing how the properties of materials influence duty						
	Google Drive: 2.3.2 Building a Birdhouse				needed as and function. Therefore conditionality and provide a stratific property for the lightweight and averages the nee of concerns, and, or others due to their unique properties (PD A Teacher Resourcess:	Supplemental Resources:					
	Day 1: Deveriper de manriels social actualid a bielhouse.										

SECO	ND GRADE STEM STORYLINES				Regimening Leases and the second second data of the second s	Constant and Constant and Constant and					
	2nd SEEd Module Storyllius	Approx. Pasing	Supplies needed (Encry staryline requires a student journal) Most Storylines we a google didectore, but it is not always sequired to use its	Cross Carriedar Aziribis	Viah Core New HEEd Alignment	Actions and Engineering Practice (007)	Cross Carring Translash (T.C.)	Dissiplinary Core Mers (DCI) unles	Association	Quick Links to SEEd CANVESS Mediates.	Quick Links to Amy's Drive (gaught dides, stanloss jearnal film)
	Dig & Tanganing dings baharansis taran Dig S Digaga kaharan katalaka		yan, popularik yiki adalahal, arag			Engineering Design (2):Theo Links Pan Engineering empelose with the boson of the 3 bink Pang barghenens sterms 55 million 21 al. 5 million build a geogeneous boson our of the emergene manufat Supplem propriorities, psychotrad boson empiles, graham arckurs, fronting, and no abscene.					
	Day & Building a bindhouse, bindlinder.										
	Querter 4 Day 5. Training description. Day 5. Standard and generation of days. Day 5. Standard days. Day 8. Frand days adultance.			PETEACHER					-		
	2.3.3 Lego Hotel			-	Rended 2.3.3.20mlog and use a model to developing an object, make of a small an of piner, can be desaureded and reduped into a new object with a different function. Emphasize that a great						
	CANVAS 2.3.3 Lego Hotel Google Drive: 2.3.3 Lego Hotel				veriety of objects one he back from a small set of pieces. Examples of pieces could include wooders. Marks or building bricks. (FELA)						
	Reg & Balander and Bala		legen, bade		Teacher Resources	Supplemental Resources: Trajectory Datases: Englanding Datases: Engla					
	Day 3. Take your divige aparthere another andres ary to constryour design. Day 4. Compare original designs and constrances things using legos.										
Quarter 4	2.3.4 I'm melting/Properties of Matter CANVAS: 2.3.4 I'm melting Google Drive: 2.3.4 I'm melting				Sandred 23 stoffware, reviews, not communicate information share shares hence to more cound by bearing or andreg. Emphasize the same sharps can be researed and one counts. Examples of mercelike sharps calific heads froming wave or metricg respons. Examples of intercondite charges and it hashes cadding on gg or browing small (913.8).				_		
	Reg 1 because on a second addres (filmer on a second value of an end of		Cogen milita i par detto hopino, eno	ANT TRACHER	Tender: Resources.	Supplemental Leconrecs. Holmans plane Holmans and the second se					
	Day 3. Denveloper adar delego that charge paraces holied para. Refering resoure egg, origoni paper es the pa Day 4. That charges are reversible and inversible.	per de.									
				_							

THIR	D GRADE STEM STORYLINES				Engineering Learners targe littles graph combiness which and increasing laws	a hana ka	and standard stands	alased.			
	Ted SEEd Module Scorylines	Approx. Paing	Supplies needed (Every storyline requires a stadeat journal)	Cross-Carricular Activity	Utah Core State SITEd Aligument	Science and Engineering Practice	Cross-Catting Standards (CC)	Disciplinary Core Ideas (DCD code	Assessments	Quick Links to SIEd CANVAS Mediales.	Quick Links to Any's Drive (google dides, student journal film)
	Jed SEEd Module Storylines		Most Storylines use a geogle didection, but it is not always required to use it:	Activities		(513)	manually (CC.)	(Loc.4) soldier		311 312 & 313 WEATHER AND CLIMATE PATTERNS	(google dides, student journal files)
	3.3.1 Force Affect Motion/May the Force be with you				Standard 5.51 Han and carry not intensityations the prostile relieve of the effects of submodured adulated forces on the matter of an object. Emphasize transityations where only ones					LUMAIL PALIERNS	CLAMATE PATTERNS
	CANVAS 3.3.1 Force Affects Motion Google Drive 3.3.1 Force Affects Motion				terming it to more and limits dama forces publicgion a loss from both siles producing no mercenters (PELA, PELB)	Cause and Effect	Planning and Carrying out investigations	(PS2) Motions and Stability: Forces and Interactions			321 CIRCLE OF LIFE (LIFE CYCLES)
	Learning Target: I can describe how an object will move with balanced and unbalanced forces.				Engineering Design-	Supplementa	l Resources:	_	-		322 OH I JUST CAN'T WAIT TO BE KINC! (INHERITED TRAITS)
	Lessen I: Phenomena Explore the phenomena of dominoos and pythagera oxich(nube goldborg maxes) Students determine which forces even a grazer force. Lessen 2: Gather Students complete May the Force be with you. Students test a car going down a ramp to	30 mins			10 May the Force be With You			(PSI) Energy		-	323 SLIMY YET SATISFYINCL (ENVIRONMENTS AFFECT TRAITS) 324 BE PREPARED (HOW TRAITS)
	and a constrained associated and the reserve way yet, subject to a congress of any or see how farit travels.	30 mins			Supplies: Piece of Cardboard, foamboard, flat cookie sheet - anything flat that you can roll a car down	stare rackets		-			HELP SURVIVAL)
					Wooden blocks (to hold up ramp) Painters tape (to mark distance)						
	Lemon 3: Reason May the Form be with you lab. Students will modify one thing about the ramp serup to		foam boards, toy cars, modeling clay, sclas, 3x5 cards, paperclips		Meter stick Marker Small Cars						
	make the cargo further.	30 mins			Large table or a slick floor (the larger and wider the better) 3 x 5 card (draw Mudhorn on it)						
					Modeling clay or playdough (optional) Digital scale (optional)						325.6.326 REMEMBER WHO YOU ARE FROM AN ECOSYSTEM WORKS
	Lemon & Communicate Students downning the differences between balanced and unbalanced forces	30 mins				pad analismatik na		_			TOGETHER TO SUPPORT SURVIVAL & CHANGES IN AN ENVIRONMENT?
-	adapted to games. 3.3.2 Predicting Motion	, or many						_		331 FORCE AFFECTS MOTION	331 FORCE AFFECTS MOTION
	CANVAS 3.3.2 Predicting Notion Geogle Drive 3.3.2 Predicting Motion				Standard J.S.Z. And/or and Interpret data from observations and measurements of an object's motion to identify parameters in termstein that can be used to product future metions. Examples of matters with a production parameter and blacksike a shell wringing on a veing area hall estiling down a same, (MAA, FSLC).		Analyzing and	(PS2) Motions and Stability: Forces and Interactions		332 PREDICTING MOTION	332 PRIDECTING MOTION.
	Learning Target 1 can predict how an object will move based on the partners of motion 1 so.				Teacher Resources:	Parases Supplementa	Resources:	Internations		133 GRAVITY	333 GRAVITY
					Engineering Design: 09 Braving the Bridge						
		30 mins			Supplies: 3x5 cards						
	Lesson 1: Phenomena Students look at a restorior condulant, entres and constitut an experiment on				Pennies Tape Ruler						334 A Day at the Races
	Lesson I: Phononsuma Students look at a emitoging pundalame, emitogic and complete an experiment on boarcing balls. Students explore the meetion of blick in flight, raindrops in water. They explore pendicatable patterns in narraw and try to determine ways that they can repeat the meetions.			DANCE of PE TEACHER EVENT:	Set of blocks					334 A DAY AT THE RACES	MAGNETIC & ELECTRIC. INTERACTIONS
	Lesson 2: Gather Student conduct experiments on playground equipment.	30 mins			Engineering Design:					335 MAGLEV TRAINS	335 MAGLEY TRAINS
					11 Scribbler/Scrubber Bots Supplies						
					For Demo: Toys that move, light up or play sound. For Zentangle: watercolor (preferred) can use colored						
					pencil or crayons, pens, art paper.						
			spirographs, motor and motor halders, plastic cups, pipe cleaners, miand motors for scribble bors, popside sticks, tops, ping-pong balls		For Scribbler/Scrubber Bots 1.5 DC Motor Kit AA battery and AA Battery Holder						
-					Roll of masking tape (share between groups) Pink eraser (they will eventually become small bits of						
Quirter		1 hour			eraser) Cups 2-3 Pipe cleaners						
					2-3 ripe clamers 3-4 pencils 2-3 Paper clips 2-3 Rubber bands						
					2-3 drinking straws 3-4 popsiele sticks						
					Small pieces of sponge Scissors						
					String Markers						
					For supplemental: paint, marbles, box lid, art paper, string, cups, cardboard to make a small pendelum tower.						
	Lessen 3: Rassen, Communicate Student create Sorthile Bon. Lessen 4: Communicate Student sure and observe other groups scribble box. Moreans activity Student create dravings on the ground using a drip backet and water. (could also do drie with Spirograph if analable)	30 min-1 hour						_			
-	this with Spirographesi analable) 3.3.3 Gravity(the is alternate to the above activity						_			
	CANVAS 3.3.3 Gravityl Geogle Drive 3.3.3 Gravityl				Standard J. 1.1 Continues an explanation that the positivational force anothed by Earth senses adoptivative internated accounted, second the ansate of the spherical Earth. Emphasize due's descenses of a also distribution depending an one's position on Earth. (95230)		Constructing Explanations and Designing Solutions	(PS2) Motions and Stability: Fontes and			
	Moreguer and the answer set werstep 1. Learning Target: I can explain that all objects fall nowards Earth.				Teacher Resources:	Supplementa	Resources:	Internations			
	Lesson 1: Phenomena Students watch a tideo about gravity and design a way to visit the meen or are ther	Masing			Engineering Design: 04 Too Many Pumpkins						
	plane.	Sheatos	paper for halicopter, papertlips, box of various supplies to make a small Rube Goldberg reaction (ny care, ramps, paper, blacks, books)		Supplies:						
	Lessen 2: Gather Students will design paper helicopters to my no find the best flyers that use gravity Lessen 3: Reason Students will design a Rubb Goldberg device that mainly uses gravity to complete a rack.	30 mins	Goldberg reaction (toy cars, ramps, paper, blocks, books)	Engineering Build	This experiment uses the engineering fair guidelines to complete.			-			
	Lassen 1: Rassan Students vill dolge 1: Rubs Goltberg devise that malely uses gravity to complete a task. (Abrama activity: Engineering: a Rollerozoner. There are several appo collere that have endents baild and er an oftwassare. I dott on itscholar any of the Ethica is a several appoint of the The- eron and the several relation in the several of the Ethica is a several appoint of the The- 2020. If I find a henre alternative I will add a lessen here. If you have cone, send it my smy? Thank you.)	45 mins		Engineering Test							
	Lesson & Communicate Students re-build their Rule: Goldberg device and do a final test.	45 mins		Engineering Rebuild and Report							
	3.3.4 A Day at the Races				Standard 3,3,4 Ack quotions to plan and carry out an investigation to determine cases and effect milatorships of metric or magnetic interactions between two objects not in						
	CANVAS 3.3.4 A Day at the Races Google Drive 3.3.4 A Day at the Races	5-10 mins			Ask quantime to plan and carry out an investigation to determine care and effect to this only of effects or magnetic interactions thermore subjects to the contact with each other. Emphasism how tastic electricity and magnetic care cares electric to new which the tanking has a subject could be add the force an education duptice to new which the tanking has a subject could be add the force and entropic the care, or how discuss between beginning the other should be does. The trial duptice between the plant time of the tank of the tank of the tank of the state of the state of the tank of the tangent is could be add the dupped and magnetic fields will be tanget in Gradus 6 discuss[b & (Fi2.1)]						
	Learning Targets I can investigate came and effect between magnetic and non-magnetic objects.				Teacher Resources:	Supplementa	l Resources:		_		
	Lesson 1: Phenomena Studence explore the phenomena of static electricity and magnets. (Video provided, this can be a tracher dena).				Engineering Design: 12 Straw Rockets						
	(as can be a mean using). A write of mini (nonzion) have for ounderns to explore staric electricity 1. Ballicens and hair 2. flusting asyrolians 3. staric tubes 4. moving water 5. Meeling Ballicens with charged electrostatic node.	30-42 mins	Soyndoam plazes large and small, balloons, microf ther cluth, bubbles, compasse, bag of magnetic chips, energy red, plastic rays, rabbit fune, magnet wande, magnetic boses, bar magnets, and gravity kits.		Supplies						
	Lassen 2: Gather Students participane in a race using aluminum cane, PVC pipe, doth. – Stutic electricity can mese. (Alumans activity provided. Students participate in a race using babbles.) Lassen 3: Reason/Communicate A study of how Cochlear implants are affected by static electricity and	30 mins	bar magnets, and gravity kits.								
		30 mins									
	channes trainwedgereignere papytoteka son an is of some of sole watereductions in particle. Learnes 4 Phononeman Carlor (errors part for and test are of known) for a former of the the interactions of magnetic howing adding (mag macks available for check our from the district office and will also be used in the next set of losses.)	2030 mins									
	Quese 2 3.3.5 Maglev Trains				Standard 3.2.5 Design a solution to a problem in which a device functions by using scientific						
	CANVAS 3.3.5 Maglev Trains Google Drive 3.3.5 Maglev Trains				Scendard 3.3.5 Droign a solution to a puckloss in which a droits functions by using scientific dots about asympts. Differs the problem, klostly status and assumater, develop profile solutions using models, and/our data from noting solutions, and propose additionation for granting a solution. Examples called bould achieve that in the land to large door share a door to any raw society depicts from teaching solution data. (Fig. 2013, A 1733, A 1731, A 1731, A)						
	The following lessons are similar. Students are meant finish Episode 1 and then choose ONE of the following episodes (episode 2, 3, or 4) below to complete, or you can decide which lesson your class				each ohar (PS2B, ITS1.A, ITS1.B, ITS1.C) Teacher Resources:	Supplementa	l Resources:				
	The following latence are similar disolutest are near think for grands 1 and here shows ODE of the disorating grands of masses 2, 3, 4+6 b) how to complete, as types can disolve that has non-specific and the state of the three provided exploration grands of the disorder grand of the d										
	Inter to enough out of a second provide the second		Square magnets, tape, wooden block template for cars, 365 cards, leftorer certal boses,	Engineering Build	Engineering Design: 16 MAGLEV Trains						
			scisson, thing: to decerated the 'maglee train' markers pens-poor poers, ping poog balk (for train passengen), pipe cleaners, rabber hands, cardweck		In MAGLEV Trains						
	Lessen 1: Phenomena Intro to Magley trains, video and braismorm activity.	-10 min.		Logiaurian Test							
	Lesson 2: Gather Students test various magnetic properties in a series of mini-experiments. (This can be	30 mins - 1 hour		Engineering Test Engineering Robaild are Report	4						
	split item multiple days.) Lennen 3: Reseau-Communicates (Thickesson periors has 3 options: 1 is the sorient for [ed grade, box 2 is the most flux for the unidence, 3 is meast for mose advanced moderne. But you can choose to do all 3 if you with.) Option 1: Studence design and tox a Midglee train that can go the fattere down a track.	-2 hours (If you do all three)	IF YOUR SCHOOL DOISN'T HAVE THEM. You will need to check out a MAGLEV Tack (I suggest checking out 2 minimum with a MAGLEV coupler								
	Option 2. Students design and tset a Magles train that safely transports passengers. Option 3. Students design and tset a Magles train that can make the train arrive at the cornect time.										
	3.3.5 Solving Problems with Magnets CANVAS 3.3.5 Solving Problems with Magnets				Scendard 3.3.5 Droign a solution to a puckloss in which a droits functions by using scientific dots about asympts. Differs the problem, klostly statum and assessment, develop profile solutions using models, and/our data from sensing solutions, and propose additionation for gravitating a solution. Encodes and dots that in lock and the large data status of a solution to apress society depicts from teaching solution that (TEA, ATTEA, LTEA, LTEA, LTEA).						
	Google Drive 3.3.5 Solving Problems with Magnets				possible solutions using models, analyse data from testing solutions, and propose mod fractions for optimizing a solution. Examples could include a latch or lock and to keep a door dust or a device to keep two merving-objects from touching each other. (FS2B, ETS1 A, ETS1 B, ETS1 C)						
			Styrafoam places large and small, balloons, microffher cloth, bubbles, compares, bag of magnetic chips, energy red, plactic trays, rabits flare, magnet wands, magnetic boso, har magnets, and gravity kits.		Teacher Resources:	Supplementa	Resources:				
arter 2	and the stiff.		-at sugars, and garry kits		Seniari 123						
Que	3.2.1 Circle of Life CANVAS 3.2.1 Circle of Life Canada Data 2.1 Circle of Life				Secondard 3.3.1 Developed and use models to discussive changes when regaritions go through diversig durit life specific. Implication are produced have unique and allowers life cyclics have follower as firstly, growth, reproduction, and datak. Kamples of Anges in Hier payls and histoliza- lower same plane national hash different supports of Hier relear online instan- med animals melly appare to change due to their life (35.128).						
	Google Drive 3.2.1 Circle of Life				here some planes and antinak look differense av defferense söges af life er here ocher planes. and antinak only appear to sharep size to shore life. (251.8) <u>Teacher Resources:</u>	Supplementa	l Resources:				
	Lensing Engent 1 on make ended a different för sjok. Tensing Engent 1 om make ended and different för sjok. Engent 1 pressumes at tension stylet, sjok stylet att för sjok of a kuns, here yare att forsen human tilt opdas för sjok att för sjok att försen sjok stylet att för sjok att försen sjok stylet sjok att förse sjok att förse sjok att tension att för sjok att försen sjok stylet att försen sjok stylet sjok att förse sjok att förse sjok att förse sjok att förse sjok att sjok stylet sjok stylet sjok att försen sjok stylet sjok att förse sjok att förse sjok att förse sjok att förse sjok att sjok att försen sjok stylet sjok att försen sjok stylet sjok att förse sjok att förse sjok att förse sjok att sjok att sjok att försen sjok stylet sjok att försen sjok stylet sjok att förse sjok att en sjok att sjok att sjok att sjok att sjok att försen sjok stylet sjok att sjok att förse sjok att förse sjok att en sjok att sjök att sjök att sjök att sjök att sjök att en sjok att sjök att en sjök att sjök att sjök att sjök att sjök att sjök a			Devid							
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RADE STEM STORYLINES				Performance and the second						
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gle Drive 3.2.3 & 3.2.4 Environments Affect Traits/How				Sandard 3.2.3 Construct on replacation that the environment are allow the tests of an experime.						
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gie Drive 3.2.6 Noise Pollution				and constraints, and develop possible solutions. Transplot of revisionmental charges could include charges in land any, water and definity, temperature, food, or charges caused by other semantics. (ESCC, USA), ESCS, A. USA, B. USA, B.						
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	4.1.1 Organisms Structures & Functions					Generating Explanations and Designing Eductions in 3-5 Institution K: 2 experiment and programs sorbe use of	Structure and Parenton A system can be described in sense of its components and duty intraactions.	133.3. Structure and Parentins There and aximals have both internal and natural concentrations that serve			
1	CANVAL-A.1.1 Organization Directories & Functions Geogle Drive-4.1.1 Organization Structures & Functions				Constant a replanation from relation they from out animals have instrained and restrain measures the function to support serviced genetic helpsing, and restrained in Template Instruments	Constructing Explanations and Dispring Industries in 3-9 builties III. 2: appointence of progress works use of relatives in semiconing explanations that specify writeline that denotes and profiles phonomes and in designing multiple schemes as design profiles. Construct and assessment for the phonomes of the phonomes and assessments and assessments of the determination.		variant basetions in general, survival, behavior, and repealaction.			
					reproduction. Emphasis have arrangement support an expension's surrival in its environments and have internal and neuronal structures of plans, and an internal resp within the same and anone multiple Undo moticomerces. Hamples of measuremental include durate on a source so present production or glin on a fields a directive breather	Commune and compare multiple schedures to a problem base on how well they more the orienta and communes of the desire schedure.					412 MEMORY SYSTEMS (HOW
	Laurning Targets I can determine the function of different structures on an organism.				belake dama as som upprotes pedatas or gle av eldere daviere beske entremen (20.4) <u>Teacher Resources:</u>	Supplemental Resources:			_	412 MEMORY SYSTEMS	ANIMALS RESPOND
	Experience Experience in an international in management of statistics on an organization. Explands 1: Phenomenae Explore the phenomena of a plant matering wave and revising. Statistics draw a flower and haled all the parts, chara discussion alreast the transmer and functions of all the parts of a flower.				Textiler Resource:	Engineering Design: 01 Bird Besley	Art Lonce: 4.1.1 & 4.1.2 Biolognitescent Fish				413 OH. FOSSE! WHERE ARE YOU?
			Coupons or colored perceds, animal disc (printed and made) local, tail, limbs, healy arels (printed, laminated)	Danar! The Blind Sheev Danar		01 Bird Bales				413 OH FOSSIL WHERE ARE YOU?	(FOSSILS & ANCIENT ENVIRONMENTS)
	Fpinale 2: Students explore aximals and their functions. They play a game using aximal discus levels at structure form statem Units aximals.	30 v3 mim	break, sail, lander, booly cards (privated, laminated)			Supplie: Paparclips, marbles, toorhpicks, timer kebab sticks, straws, binderclips	Sapplior Art Paper Markers Elemencent Paint				
	Fights 2: The latter region and an address from theory by spectra system and net to be a sense of the state o	23.50 min	Optional plant, pireconst and water				Markers Econoscont Datas				
	Epitede is basicen observe this breaking underware. They look at unique function from routions animals and wad about animals in most dealt. They determine here animals grow, sortitre and here offspring (approduce).	Nain				supplies to build a bird beak: popsicle sticks paper, tape,	Paint Brushes Black Light				
	Fpinale 5: Ination, interve plans item Dash dray tind penerus in their structures, and functions [in: Tereptone power is add plans. Tenal length plans, prefer waves plans.] Tpinale 6: Inatoms look as imaginary assumes or determines where they might live based on durit structures, and function.	Num		Dramal Act out					_		
	Nutlines durans that series summersed factors due affect plane, and aximaly. Tendents some (dow) as imaginary structure and disorders sky that structure's structure and factories allows in to low where is dow.	30.45 min		Dramid Aut out animals with different amaranes. It forestions							
	Finals 7: Yandowany fare planes in their neighborhoodly assurptions a plane collination. They new what they found by type (bed, reng, well, they downine the features of the servation. As a final assurance, they pilk a plane to dow as hold, (secure a mode).	Nain		havin						414 CALL TO ORDER/ROCK	
Ŀ				And Densing Learns						LAYURS	414 CALL TO ORDER (ROCK LAYERS)
	A 1 2 Manuary Barbarra (View Animala Respond)				Readerd &1.2 Develop and sace a model of a system so develop how asimals movies difference syste of information from their methomotoper density heir sums, process de information so developing and second as a development of the product second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Developing and Using Models: Modeling in 3: 5 hadds on K 2 experiences and progresses to building and erotategrample models and uning models to represent crosses and design relations.	Systems and System Models: A system can be described in some of its components and their interaction.	231.20 Information Processing Difference some reception are specialized for particular kinds, of information, which may be then presented by the animal's brain, which are difference and their recentry into and memorican see which their actions.			421 TAKE ME OUT TO THE BALLGAME.
	4.1.2 Memory Systems (How Animals Respond) CANVAE-1.1.2 Memory Systems (New Animals Respond) Social Drive 4.1.3 Memory Systems (New Animals Respond)				in their leasts, and respond to the information. Emphasize here animals are ableve an their preceptions and memories us guide their actions. Examples and al include model that replain here animals areas and does respond to different aspace, of their	udation. Desley a model using an example to describe a scientific		she'r prweption and memories w guide the'r arton.		421 TAKE ME OUT TO THE BALL.	(ENERGY TRANSFERS CAUSE & EFFECT)
					Teacher Resources:	Supplemental Resources:				422 TAKE ME OUT WITH THE	42.2 TAKE ME OUT WITH THE CROWD.
	Laurening Target: I can orner a model for tracking an animal a shift based on positive or negative stimuli.								-	CROWD	(ENERGY TRANSFER COLLISIONS) 423 BUY ME SOME PEANUTS AND
	Epitade 1: Pleaseners Explore the Pleaseners of a monkey warring other animals that a lies is coming.	Name				Engineering Design: 02 Hond Honeycomb				423 BUY ME SOME PEANUTS AND CRACKERIACKS	CRACKERIACKS (ENERGY TRANSFER. SOUND & HEAT)
	Episode 2. Explore the Plenomena of an elephant detecting at Earthquide.	Stain 22 min				Supplier 1 sheet of graph paper per group Virus				LEASE REPORTED	SUNDARIAN.
	Fighad 2. Stapins the Theorems and an object strating for Enrolution. Fighad 3. Canges I have a more strategy and a strategy and a strategy and Fighad 9. Canges I have a more strategy and a strategy of the strate. Fighad 9. Canges I have a strategy and the strategy and the strategy of the strate of the strategy of the strategy of the strategy and the strategy and the strategy of the strategy of the strate of the strategy of the strategy of the strategy and the strategy and the strategy of the strategy of the strategy of the law of the strategy of the strategy and the strategy of the strategy of the strategy of the strategy of the strategy of the strategy of the strategy of the strategy of the strategy of the strategy of the strategy of the strategy of the strategy of the strategy of t	20 min	Animal beolemarks printed in color, out and lawinated								
	(Alternate activity provided). Students with an eard finding different assists to par on their animal lenger and, they will need to read about how the animal interacts in W1 are resonances. During kings the tracker only gives class, for how the animal interacts in their excitoments. Students will have to discuss which arised the tracker is talkare	al min	Dise (2 per stadient or 2 per trans if sloing transs) Colored penals or organs Search Cardy (2 pixer per stadient)			Papar Tapa Scissors 1 Hone Honeycomb Activity Worksheet					
	about in order to mark it off on their himperand.)		Sour Candy (2 piece per student)			1 Hotel Honeycomb Activity Worksheet					
						per group (optional) Pipe cleaners (optional) Colored pencils (optional)					
						Colored pencils (optional) 1° Hexagon template paper (optional)					
		Numira				1° Hexagon template paper (optional) 1 %" Hexagon template paper (optional) 2° Hexagon template paper (optional)					
											424 HARRY POTTER WANDS
_	Episode 5: Studients explore how animals are trained. Lesson in How to Train your Datasets, for how disconting for some entry			Art Due and orier year-dragen						424 HARRY POTTER WANDS	(ENERCY TRANSFER SOUND & LICHT)
urter	Lessen & Flow to Train your Dagon. Studients determine features using a regular date for their own per Dagon and dawn 8. Hen to Tatas your Dagon. Studients are the features that their Dagon has to intermente how their despose would be open a set as Textures are also for the forward as the texture processor to text their despose.	30-40 minu									431 WAVES
8	4.1.3 Oh Fossil, Where are you?				Realed 11.1						4321 SEE YOU NOW (LIGHT WAVES)
	4.1.3 Oh Fosell, Where are you? GANVAE4.1.3 Oh Fosell, Where are you?				Resolved 4.1.3 Analyse and Interpret data from deallow particle relations of the solidly and change in expansion and environment from long are implaints using the assume of the laws and and an experiment of the solid sector of the solid and of the laws and an experiment of the solid sector of the solid sector.						
					environments smild include comparing collidier with a horoschor only in an assum environment or using a load floorprine to determine the size of a decoust. (3.34.3)	Analysing and Interpreting Data	Tabliy and Charge	(E34)Bolopial Industor	I	I	433 COMMUNICATION 1999
	Lauraing Targets Town book as founds to find excidence of changes in reportions and excitonisments.			Ard Make a first imprim/mold	Teacher Resources:	Supplemental Resources:					A33.COMMUNICATING WITH PATTERNS
	Typicals 1: Studient look at feeds on the top of a measure, feederin go on a feed heart. Studients are given a series of feed earth to match to their educive looks contextures and compare structures, from both.	ail nin				Engineering Design: 03 Oh Fossil, My Fossil	Field Trip: <u>Thankopistry Doint Museum Screenger Hung</u> Can't go on a real field rep? If you <u>control to the</u> rel field rep? If you <u>control 10</u>				4416 442 CLARK PLANETARIUM
			Printed and Saminated (and such, Ver final base) and in Spinole 1 and 4			Santlier					
	Fpinale 2: Student play a game using pictures of familiar bring sensitive topol to that back (or feedwad). They marks the bring images to the famili images and compare moders and put creatures.	all sain	Printed and and and and a second over 1 and 1 and 1 Printed data and a second over 1 and 2 power Optional wall instruments have an Colored pressib.			Printed copies of the fossil pazzles sciences	walk through, students can click to view it full page and virtually walk through the entire				
	and and a second se		Louise press.			ghas	musum.				
	Takada K Salam kala mashadan takan sa 2004 A					paper for dinosaur puzzle background paper/pencil for student to write a story.	Supplier Computers (1 per student)				441BRIGHTNESS OF STARS
	Fpinale 3: Students look at moders/present excitonments of feeds from around the world.	iil min					Supplier Computers (1 per student) screenger booklet scissors				442 MAKING SENSE OF SHADOWS
	Fplicade in Students look at Unit specifically to determine the part environment in Unit and here it has changed.	áð min					acissors tape colored pencils				
	Fpinale 3: Students ovate a feed information and and determine here the revisionment charged around the	áil sain		helb and			sources pences				
H	ween.	-		ard Intel Cash	Semicol 41.4						
	4.1.4 Call to Order/Rock Leyers CANVAS 4.1.4 Call to Order/Rock Leyers Google Drive 4.1.4 Call to Order/Rock Leyers				Renderd 4.1.4 Engap in argument has evidence based on parents in each layers and itselfs from in their form transportence explanation that emissions emission have shareed on ear time. Evandated the existencies in between fresh and many emission from the argument of the						
					Emphasize the wilationship foresame faults and pare renteronnesses. Transpire could include recepted plane fourth found in Acois areas and suck lapors with matter deel fourth found above suck lapors with land plane fourth. (2002.12)	Parene .	Topping in Asymmum from Evidence	(1001) Earth's Place in the Universe			
	Ownell Learning Targets I can use patterns of reak formations to determine how environments sharpy over time.				Teacher Resources:	Supplemental Resources:					
						Engineering Design: 04 Heigh Ho, Home from work we go!	Art Lessen: Rock Layers Watercolor Art				
			Optional: a layered salar to some to students			Supplies	Supplier				
	Episode 1: I can observe reducts largers and determine which layers are older or younges. Students look at patterns in such from around-the weekl. They compare reductance to layers of a sale.	Nain	Optional a key out of a first instead of a straining (plane, fick) Foreds Cohored provids <u>PPPP</u> Potonel/Call in: Onles Activity with Machago youlooks Computer (if doing visual Baldwig)				Suppose Watercolo paper (2 sheets per etudent) water colors paire brushos cups water glue				
			Colored penalts paper				paint brushes cups				
			Printed Call to Order Activity with lisbelings symbols Computer (Filosog riseaal fieldstep)				water glue				
	Fpixade 2: I can explain how understary much form and how for do in submentary reads can tell to about part		Sand Jar Ave	Ard Rock Patterns						I	
	Figure 1: 1 can replay the few submarray walks from and the results was hadron and was the start of the start of environments. The start of the sta	Nain	Paperson								
	and various feedly of their cheine. Students write a narrative to go along with the real layers. (Call to Oxfor Astriny) Episade 3: 1 on argue using evidence to determine what type of avature a feedl bare been and where it may										
	have beed. Students po on a visual field-tip bala. Go on a visual bilas <u>branch resources</u> , and the first form (the source distances of the same). Extended to the observation of the same	split into 2 days									
	have hered. Students go on a strend fielding/shife: Course without hitse <u>https://www.new.</u> proteins/course/proteins/minimal-exclusion/shifes/shifes/ Fightadis & 1 and determine which reaches are didner or younger heard on where dusy are found. Students look at a writes of exclusion determine the strept in Endoge study are produced in the stress and and mentals and a stress Fishtadis & 1 () and determine the strip ficing heads are didner on the did to the source and will mentals. A stress Fishtadis & 1 () and determine the strip ficing heads are didner on the did to the source and will mentals.	uplacione 2 days									
	har bend Sandara ge na visual Addapi Mar Cara visual Mar <u>Taya Taranga</u> markan Sanaghangkan Maria Malayi Mar Cara visual Figliada et a na disensita widah sekuta ar didar ar yanga mendi metera dary ar fanad. Sandara keda ar a markan sekuta dari kata ana di sekuta ar didar ar yang sekuta dari kata sekuta sekuta sekuta dari sekuta sekuta sekuta sekuta dari kata sekuta seku	ydin inne 2 days									
	Fighted + 1 can detension which reads are value or pages based on where days are found. Students look as a mixture of orkan distribution theory approx and days. Fighted + 51 can detension theory they are pages of Kardo and a to the part and will constrain to look the same as do found. Students due to the Kardo bases and the days at dails to the part and will constrain to look the same as do found. Students and the same to days and Kardo and days are dails will have been detended and what a based data in the page.	uple inter 2 days									
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	Fights 4: Et au densates obtained and der orsampt head an obtain dens dary an Good. Scheden heide as sonten auf den auf densates densates fragen aug gesträcht densates heiden eine Fighte 4: Et au densates densite heiden densates des auch auf den auf den auf den auf den auf densates densates eine einer densates des auf der auf den densates heiden der auf den auf densates densates einer densates des auf der auf densates heiden der auf den auf densates densates einer der auf densates der auf den auf densates der auf den auf densates der auf densates gewent 3: Aus 2: Tables mei onet to the Beill Gesand (Ebergerg transchen Casues B				Real of a 11 Common complexition on the other days are and the contract of the second of the contract of the other days are as a second or the						
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	4th SITd Madule Scorylines Amer	Supplies would (Enery staryline requires a student journal)	Cress Carriedae						Quick Links to SEEd CANVAS Madulos.	Quick Links to Awy's Drive (geogle disks, student journal film)
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	CANVAS 4.3.2 see you now (Light Waves)			Bundard 4.3.2 Develop and one a model to desorbe how visible light week relation of from departament the systemating edgess to be seen. Temphasias the relation and movement of lights. The resources and functions of organs and regress yourness and the relationship howevers often and weekengths will be tangle in Crades-Golmagh K. (1918)						
	Soogle Drive 4.3.2 Lese you now (Light Wayes			organ systems and the relationship increases calor and wavelength will be weight in Grades dishensigh R. (1984 B)						
	carating Targets I and ensure a model on describe here light in measure in order to use.		And Study the officer of Tight on objects.	Teacher Resources:	Supplemental Resources:					
					Engineering Design: 10 Percedurate					
		Students will read to bring their Harry Potter Wand created to the previou with or one can use Galdbeller, Machined atteilers three scheme and			Supplies					
	annes In Phonomenu I cannot sur the color of your thirt in a dark room. annes In Carlor Smileon desember here much light is nonled to see the color of different object.	unit, er yne aar nae lâzhlighet, blakened winderwylkens, oelored paper with numbers hand on skens. Different instande materials er elgens dee hones, here lights, ware skeley, oelor papit le stick, naint minow, oelor fabr								
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	anne 7: Known Indexes allow data for parametered deserve de parameter? Egle releating from different warrend depen, ad here day on released differently.									
	man B. Commutance Students develop and argument to support the replanation that light reflects differently when it does a different researce.									
	Querier 4									
	1.8.8 Communicating with Patterns			Standard 4.3.3 Design a solution to an information randor problem using new parsets. Define the problem, identify other is and annexation, develop proble solutions using multile, majors data forms mange dynamics, and proper multilizations for optimizing a robation. Transpla sould include using plage assumed as sumsym 3 Bars or other or singlement and intends using plage assumed as more placed as 2004. A STEM REPARCH						
	CANVAS 4.3.3 Communicating with Patterns Scogle Drive 4.3.3. Communicating with Patterns			property common samp moment, analysis data irons moting advantant, and propers modifications for optimizing a solution. Trainiples could include under lifetime transmitter is memory in 20 data and or native limits.						
H	ecogre Drive 4.8.3. Communicating with Petroris			services that are for easy (Pis C, ITH A, ETH A, ETH C) Teacher Resources:	Supplemental Resources:					
Ŀ	zeen 1: Plenomen Bradeen vier beer obje communicar unig parents of light (Betith Indonation) zeen 2: Carlor Bradeen.leare abort ools and sending mesage.			Teacher Resources:	Supplemental Resources: Engineering Design					
					11 Ocations					
					Supplies					
	Amer 3									
F	1.4.1 & 4.4.2 Clark Planetarium Kinesthetic Astronomy Part 1			Standard 6.6.1 Construct an replanation that differences in the approxi- leightness of the Stat compared to other march data to the relative diseaser (such of stars from Earth Tendrator relative diseaser from Earth (2001.A)						
	CANVAS 4.4.1 & 4.4.2 Clark Planetarium Kinesthetic Ástronom y Soogle Drive 4.4.1 & 4.4.2 Clark Planetarium Kinesthetic			(sub) of new from Earth. Emphasize relative diseases from Earth. (2001.A)						
	Soogle Drive 4.4.1 & 4.4.2 Clerk Planetarium Kinesthetic									
	arring Tagys 1: Los optain the apparent differences in the heightness of the sun compared to other stars 2: Los observe arranges provide evidence of Earth's mention levide around the sam.		Damar	Teacher Resources:	Supplemental Resources:					
	anomeno provide evidence of Earch's maximulation assumables can. Ny 1-Piennamena: Approves motion of the sam. (The sam approves to its in the Eas, more arms the day and art in the wass. This is a versarial date more:									
	Bach a separat didiy panese. Ng 2-Calaber The proper size diamae sude for the son, Each and Baon. No 1: Excamp The Excamptor decommon Civile									
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	A Shire a sea a sea Churk Managarahan Managaraha A shannana an									
1	Sogie Drive 4.4.1 & 4.4.2 Clerk Planetarium Kinesthetic									
	Astronomy			Special 552 Andres and Spectrum day of Assendir provinces in Assen						-
	3.2 Bay In Planman Midiolofs Consolitation Stress Thios, we the preservoire to dow that different soundations are able at different sizes of your. This pattern reports rary yar.			Standard 4.4.7 An dyne and interpret data of observable patterns on their the Earth strategies in ania and streduce around the lines. Emphasize patterns the provide existence of Earth's constants and orbits, around the Sars, Taamples of						
				process results of a schedule	·					
				seasons and its connection to the tile of Earth's acts will be taught in Grades: documph X. (2001.10)	h					
	Ny 2-Kather Tantis's order of docum. Ny 3-Kanana Teolog veryon'n hierheleg			Teacher Resources:	Supplemental Resources:					
	Ap 3: Kannan Finding everyon individually. Ap 4: Commandicate Will we see the smar same in the anomight that prople in drive saw last night?									
	1.4.1 Brightness of Stars									
	CANVAS 4.4.1 Brightness of Stars Scogle Drive 4.4.1 Brightness of Stars									
	icogie Drive 4.4.1 Brightness of Stars	Dalbie defeadles an earlier and a state		27. J. 12						
		Fieldspies, physics and balls, ping yong balls, tenets balls, baskerballs, baseballs		Teacher Resources:	Supplemental Resources:					
	A.2 Making Sense of Shadows									
	CANVAS 4.4.2 Making Sense of Shadows									
	Soogle Drive 4.4.2 Halding Sense of Shadows									
		blow up globes, flashlights, modeling slay, chalk, constellation pictures		Teacher Resources:	Supplemental Resources:					
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ala	H GRADE STEM STORYLINES				Englaneling Landon and Street and American Advantation from	a gib construction of the state of					
	Sth STEd Madale Storylines	Approx. Dailog	Suppline moded (Every staryline requires a student journal) More forcellane are a could dischare the in it is not chose another to are it.	Cross Carrisslar Asirikin	Unde Care State 3824 Alignment	Science and Engineering Practice (SEP)	Cross Casting Standards (CC)	Dissiplinary Core Ideas (DCI) andm	Assessments	Quick Links to SEEd CANVAS Modules.	Quick Links to Any's Drive (geogle dides, student journal film)
ſ	QUARTIR 1		en e		Sector 611	Analyzing and interpreting Data Analyzing data in 3–5 builds on		(652) Sanh's Systems: 6553 In Plan Tectorics and Large-Scale System Interactions. The locations of mountain mappe, deep ocean trendme, ocean filor structure,			
	S.1.1 Earth Features CANNAS IS.1 Earth Features Geogle Drive II.1 Earth Features				Readerd 6.1.1 Analyse and incorport data to describe partons of Tatch's finance. Implastic mea- conformation and counters score in bands that are offen daing the bandwise/however continuum and scores while only or manusis during may be found inside continuum, or no	Analysing and interpreting force Analysing data in 8–5 builds on 8–2 experiences and progresses to introducing quantitative approaches to collecting data and conducting multiple traits of qualitative observations. When possible and feasible, digital tools thould be used.	Patterns can be used as evidence to support an explanation.	The locations of mountain ranger, deep occurs trendwis, const floor exectives, and obsciences cours in partners. More extrabusition and volucionest occur in bands that are obtained from inside continents or near their edges. Maps can help locate the different band wave fraumers are near of barts.	Click here to access the	S.1.1 Earth Features	5.1.1 Earth Features
L	Google Drive K.1.1 Earth Posteres				continents and corner while major meansain durine may be found inside combinent or net- their edges. Framples of data conditionable maps develop locations of meansains on continents and the cornel floor or the locations of volcances and embryoider. (7332.20)	tools should be used. Analyze and interpret data to make sense of phenomena using logical reasoning.		conais. Major insultain chains form inside continents or near their edges. Maps can help locate the different land and water features areas of fairth.	assessments folder.		
L	Learning Target 1 are determine the patterns and correlation of Yank's volumess and rankspalars.				Teacher Resources:	Supplemental Resources: Engineering Design:				5.1.2 Saltwater & Freshwater	5.1.2 Saltwater and Freshwater
features	Epinole 1: Phenomena Targage Students explore the phenomena of a farmer who had a volume appear in his field. (This can be optimized into excises, 30 mins for video and 30 mins for reader Polity store and committy on 10.)	1 hour			OVIRVIEW. Ingage Students will gather information about a volcane that gow	Engineering Design: 01 The Floor is Lang				5.1.3 Weather or Not	5.1.3 Weather or Not
A1Brth	tokane appear in his lists. [15:1: an is split into socione, 30 minuter video and 30 minu for reading Public's story and commenting on it.]		Assess to a comparise/internet. Colourd Parable (Red, Borew, Blow in particular) Printed Mays of North Assession (1) per studiess) Printed Mays of the World (1 per studiess)		OVENUM Dappe Studence HI galari information about a volcano that gove its a fail in braiceria, Marica over the course of "y stars, destroying devilage. Explore It Explains Studens will gasher information about other North American analysis of today and the explorate activity and measure in engos to find partners in the data. They will hook at willcance in the max of direction to the data. They will hook at willcance in the max of direction to the data. They will hook at willcance in the max of direction to direct and and the most that the occurrence of that volcano was put of a partners referred that a madem ax.	Supplier +12x12 pieces of cardboard per team, 20 ft string or rope per team, duct tape, 2-4 buckets(optional)					
Southe	Epitode 2: Gather/Explore: Students are a may of North America and dow in the locations of Earthquakes, Volumes and Mentatins. (This can be split too; Nome parts	1.5 hears	Principal Maps of the World (1 per student)		North American examples of volcano and earthquala activity and meantain ranges to find partnerss in the data. They will look at volcanoes in the area of Paricentin to understand and researc that the					5.1.4 Amazing Race (Earth's Systems: GEO, Bio, Hydro, Atmo)	5.1.4 Amazing Race (Earth's Systems: Geo, Bio, Hydro, Atmo)
L	en multiple days. Yns here the option to mere forward students who fields early) Epinele 2.8. 5 Geber Explain formilian the maps for do World Institutes of measures, advances of antiperiod. When the forming a child in the distance of the state of th	1 hour			occurrence of that rolease was part of a parton order than a tradem are. Baberaro Sonderer will bok at example and noneanspies of voltances, earth-paties, and noneat a single to farther adjug and itempter data on partons of Earth's features. Totalanes: When ignore anyow this how rolease and for earth-paties occurrence, can students identify which location is more Hahy to here the next accurrence and support their answer using the data from their investigation?					5.1.5 Survivor (Reduce Effects of	5.1.5 Survivor (Reduce Effects of
L	volument and northquides. (Mare time for understand fields die North American map from the day before if modul.) Epinade Ja Kasami Hisherate Studients aus maps of the World and determine the locations of			Art Student de des as	volcances, earthquakes, and mosurtain ranges to further analyze and interport data on patterns of Earth's features. Evaluate: When vives a map with known volcano and/or earthquake					Natural Disasters)	natural disasters)
L	ration relation, carbopality and mountains.	1 hour		ta dotronita where Earthqualar/Yolumon Ourar	occumences, can students identify which location is more likely to have the next occurrence and support their answer using the data from their investigations?					5.1.5 Shake it Up!	5.1.5 Shake it Up!
L	Pathole is Commutative Feducite Teadown complete an auroanness about what they beamed about Earth's Features.	30 min								5.2.1 Composition of Matter	5.2.1 Composition of Matter
	3.1.2 Seitwater & Freemanter CANVAS 5.1.2 Seitwater & Freemanter Google Drive 3.1.2 Seitwater & Freemanter				Resoluted CL3 Use mathematiss and comparational-biology or compare the queueity of solveners and fordname in metaconcension sympositic relations for the distributions of some as Earth. Entrophone recommission as a sense, black, recome glacing as compared to application of the solution as a sense, black recome glacing as a sense of Entrophone's single solutions as a sense, black recome glack recommending minimizing perploya confiding memory and queueities (BEDCA)	Using Mathematics and computational Thriving Mathematical and computational thinking in 3–5 builds on X–2 superiences and progresses to extending quantitative measurements to a variety of physical properties and using computation and	Scale, Properties, and Quantity: Standard units are	652.C. The Raine of Haster is Samth Sambas Proposed Medical of Grant's available water is in the cases. Nam the deviation is inglicitient sense gives.		5.2.2 Properties of Matter	5.2.2 Properties of Matter
	Google Drive 3.1.2 Selfunter & Freekonster				Emphatereservationals as news, lake, steen, glacies, generalement, and pilar in ope. Transplord'ining mathematics and comparational debiling could include measuring estimating, pupling, or finding processings of quantities (ISELC)	mathematics to analyze data and compare alternative design solutions. Describe and graph-quantities such as area and solume to	used to measure and describe physical quantities out as weight and volume.	or underground; only a ting traction is in dreams; base; wetlands; and the atmosphere.		522 Properties of Platter	5.2.2 Properties of Partier,
L	Learning Targets I can determine the disclosion of Federates and subwave on Earth by comparing mathematical shares (pix graphs, data)				Teacher Resources:	Supplemental Resources:				52.38 5.2.4 Changes of Matter 8. Conservation of Matter	5.2.3 & 5.2.4 Changes of Matter & Conservation of Matter
L	omparing mathematical shares (or graphs, data) Replande 1: Plennamena bradems replane the plannemena of animals detailing from a feedmane	13 min			OVIRVIEW. Engage: Students obtain evidence about animal water scores. They	Engineering Design: 02 Water, Water Everywheret				5.3.1 Photosynthesis	5.3.1 Hydropeonics (Photosynthesis)
	Natural 7. Kadan badan and ana dia kaon akao ing ina dana kaonin ing	1 hour-joan be desided inne maleiple 30 min days)	I us of printed and made Water Dise.		 will observe the phenomenon that animals will gather to drink from ponds, lakes, and rivers but we don't use animals gathering to drink from the Gourt Salt Lake. 	Supplier				5.3.2 Move it. Move it	5.3.2 Move it. Move it
Standard Statements Produced	warr and ad warr requires.	days) 1 hour-(san he desided ione multiple 30 min days)	1 we of printed and smaller <u>More Disa</u> 1 we of printed and Leminard <u>Water Conju</u> 2 coper drawn (for dware) 1 with fordwares, 5 with softwares 16 daing wound down, drawiny small/Find softwares/Salv/Water-son takes 8 for 19 daing wound down, drawing water/Find softwares/Salv/Water-softwares) 10 daing wound down, drawing water of the software of the Salver 10 daing wound down, drawing water of the Salver 10 daines of the Salver 10 dain		OVERVISE: Engages Modulario obtains obtain animal waves owners. They will observe the phenomenon that animals will gather to drive from pools, blass, and from bett we don't use animals gathering as dolt. Stoplow its Taplato. State and the state of the state of the state of the state of the state of the state of the state of the state different scatters of states to denomine if they are find to out? with the states of the state of the states in the state state.	Geogle Slide Deck Red Sheer Green Sheet				5.3.3 Weakest Link/Strongest	5.3.3 Weakest Link/Strongest Link
	Replande Jo Rosson Toulous, graph data from fireth and salt water scores to determine here much of rath are on Earth.	analoipie 30 anin days)	instruction, Quark Jonan a Amain and Davids instand) Calculators Azona to Gaogle Karih Colonal Penalis							Link	5.5.5 Weakest Dirk/strongest Dirk
			Your science kit contains ine cube trays, toordipliks, plastic tubs, spray bottles, fas, salt, pipettes and ballsons.			Grean Statet Stop watch Borele of contaminated watter (for students to test in that filter) Filter Maserials 2 liner borefu (Cart in half)% way up from the bortion)					
ľ											
L		13 min				Screen Cloth Comon Balls				5.3.4 Rescue the Environment with Utah Lake Study	5.3.4 Rescue Environments with Utah Lake Study
Carment .						Coron Balk Chemeloth 1 cup and 2 const filters					
5	Rybuild: in Cammunicate Studious/Ind. at World Water data and piezers of Earth Form space to more a chief graph for the amounts of Fordwaters and detentor and Earth (Date Planet Automatersyster). The Water Viller has have provided bit and the sure applicate errorsmost-the video					2 paper filters Tray for used filter and materials after testing Measuring Cup Towel (for splik)					
	enser a circle graph for the answers of freedwater and informer an Earth. (Our Plane documentary on Freeh Water Value has been provided but only as an optional resonance the video is 48 minutory).										
F						Adding Questions and Defining Problems in grades 3–5 builds or grades K–2 experiences and progresses to specifying qualitative relationships.					
I	5.1.3 Weather or Not				Renderd 5.3.5 Aik question to glos and corry ant investigations for postile estimar for der ellena of workeing and decrem of ensities andre groupers Tempesian workeing and ensities	Ask questions that can be investigated based on patterns such		1552 A: Each Materials and Systems Rainfall helio(3) share the land will write the tools			
I	CANVAS B12 Westher or Not_ Geogle Drive 312 Westher or Not_				And performs to part and early are consequences or proton resolution to the or- of mathematical data rate of resolutions and the prophetic Transform and the single of the single set of the single of	A subar and minimum register of the subar sector of the subar sect	Cause and effect relationships are routinely identified, tested, and used to explain change.	CSS3. A: Sorth Monevish and Systems Bashah heijas a shape the land and affects the types of living things found in a negion. Worse, ion, wind, living argumines, and gravely lemak rocks, solis, and indements, ions smaller particles and move them a stood. SSS2. Biogeology - Living things affect the phylical characterized as of their regions.			
1						provide evidence to support explanations or design solutions. Make observations and/or measurements to produce data to serve as the basis for evidence for an explanation of a observations.					
	Learning Targets Lean discussion the different mestion (mater, i.e., practicy, regression) efform by an completing an investigation.				Teacher Resources:	Supplemental Resources:					
1						Engineering Design: 03 TarPule/Deer's Flood the Fidgers	Art Leson 5.1.3 Weathering and Enotion Watercolor Art				
1			Food Coloring/Balloom/Water - To make los Balloom, (los Balloom (and if doing 1 per stadies, lago if doing one per prop 5 prosps recommended if doing large ballown) - FRITES) days in advance.		They will work with their partner to communicate the three best question day generated that will best help as investigate the phenomenon. Explore Students will observe images of different exacebor of anothering.	Supplier Map (for class)	Supplier Watercolor paper (2 shorts per student) water colors				
1			-FRIEZE) days in advance. Teologiaks		compare their observations from optical 4 with their observations from this opticale and ary to come up with the cases. Stadenty will recent the cases and effect for each of the images in their journal.	Viliare Mage TarPuls (per seam) 1 small plastic cup Two - 1/4 inch dowels cut at 12 inches	puint brushes				
er a Not	Epitade Is Pleneaures Insteam replace the planeaures of Eak Stack in Southern Unit, complete a clast and play an instantive resiston and weathering game online.	30 min	Terdipaka Sah Tanyofar bardinana su stand termi (di sahaning up wani) Odari matan tabi wali aga papapirati pakanana, supas pipatas kahasana supa sawa supa bada wali wani) tawa		Explain: Students will observe an investigation about the rate of weathering on a pince of chalk. Students will then plan their own investigation, changing a variable to either increase or decrease the rate of	Two - 1/4 inch dowels cut at 12 inches nylon string Build supplies for the inside of the large cups (suppor	cups water glue				
StervEre 5.13 Weather of No			Other invasion tools' mealable appropriate (hammer, speens, pipetter, backnoom cups, struers, spray bottle with mater).		weathering. Stadents will record their conclusion, evaluating their new hypothesis. Educate & Evaluate: Stadents will read about as investigation conducted	Build supplies for the inside of the large cups (suppor structure) 2 large deli curse - V or					
on the Su					vendences, Nations will reach their sent stress, relativity gate are planness. The sentences of the sentence of the relativity of the sentences of the planness of the sentences of the sentences of the septement and providential readow.	Masking Tape Student journal (optional)					
8			When Moread My Dave Cache (Laminanai) Salarada Chafi (1 pione prevandence) Compensor advantanta vada nabar Midning damos constanda vada, fan, tray			Weights (for testing) 1/4 inch nuts or metal washers					
	Fjrinde 2. Gather Stadows conduct at representer on includions to get the increa		ndar If doing dono: correstanth or corrested, sale, fan, way				Dance Lesson: 513 Erosion Dance Lesson				
1	Bpinde 3: Carbor Student conduct an experience on kerballoom to get the kerter 'mode/weather' as spickly as possible. (3 suggest that siming be split up into superare planning day and superimons day)	1 hour		And Explane the officers of difference chemicals on the and observe the beauty of work			Supplier Music & open space				
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	Bylach is Communicato Sandon had as a wire of red readow room, and determine the same and effective room.	30mins									
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			at least one scale for stadients to use.		observing the effects of mining sugar with two clear liquids. Observations and questions will be seconded.Students will explose by	5.2.3 Water Density Rainbow/Chemical Watercolor Creations		
1	ands for Ranson Concernation lisks - the first part of the lab is completed as a group. Studiens to have of form and writes then on a scale, they perform both constraints with a PC - C -	30-43 mires	This starsflue also requires a variety of substances that can be used to investigate combinations that de produce new substances with new properties. We stars, nitroge, we fill by depays provide. Forms with chains each dy provide, and abbeg juint (created by beding red cabbege larens in water), antaxidizables, steel word		OVERUSE: To high the coupling, random will sugger with a phonomenon by aboving the effects of mains agars with needure highst. Obstructions and approximate the summarized structure of the phonot significant and phonomenons during the source of two synchrodis Statemenons and the first structure of two structures and the structure of the source of two structures and the structure of the source of two structures and the structures of the source of the source of and explain the structure of the source of the source of the source and explain the structure of the source of the source of the source of and explain the structure of the source of the source of the source and explain the structure on which of sources in its hands, colouls, and and explain the structure on which of sources in its hands, sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources of the sources	Supplier		
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24	han damp. Insu damp. Insu damp is mark in a second second second second second discond info (Damma Horn submarkers were made or not. (H) you and bring baland and sin with a life discond is done weight changes howevers the dough and the baland andsite. Why is show a change in the phil discondisco.		You will also want small cope or other containers to hold the substances.		and explain the effect on weight of matter as it is heard, cooled, or combined. Students will be evaluated on their understanding on a	www.other various kitchen powders.		
	my concerne or other measures were made or not. (17 years and heing balant and in and add if they is draw weight of any performance the desight and the balant and in. Why in these a change in the ght discussion.	30-43 mins	Students should waar safety poggles during this investigation.		animative associatest.			
17	ander in Supporting Plannamana Communities of mass in open and closed systems. Definition	Name	eptional bring no bake cookie dough or other similar mixed item (conservation of matter)					
24	ande à Canto CONSERVATION OF MATTER Lab. Studient replace open and desed	Name - 1 hour						
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		Numin						
5.	3.1 Hydroponics (Photosynthesis renamed)					Constructing Explanations and Designing Solutions in 3–5 builds on K–2 experiences and progresses to the use of evidence in		LSS.C. Organization for Matter and Energy Flow in Organizme Plants acquire their matchild for growth chiefly from air and water.
6	3.1 Hydroponics (Photosynthesis renemed) NY/AG II.3.1 Hydroponics (Photosynthesis				Tamberi 5.11 Continuit an replanation that plants are at units, and more yolson satisfy its postace plant matter resulted for possib. Emphasize plantacyclines at a second durat with the data matter result of the possib.	constructing explanations that specify variables that describe and predict phenomena and in designing multiple solutions to	Energy and Marter: Energy can be transferred in sources were and between strengthere	151.C. Organization for Matter and Energy Flow in Organisms Plants acquire their metadul for emut-chiefts from siz and
					well, Photosynthesis at the cellular level will be longht in Grades & through X (2012)	 weregy-problems. Generate and compare multiple solutions to a problem based on how well they meet the criteria and constraints of the design 	· · · · · · · · · · · · · · · · · · ·	
Lo	ming Targen 1 can determine here plants grew using plantsymbols and de not need soft in integrate.					Supplemental Resources:		
1	integra					suppression of sources:	Engineering Design: 08 Hydropenics	
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24	ude I: Henomera Plane geneing and Planelanging with the success.		Plantic cope or port, Potting and, Witscowin fast plant sould, or other fast growing used (e.g. andhen, pumplish, heaves, peor, etc.). Lange (if sampligh in it possible or if statistics want to compare samplight with saftrishi [15](4). Wore, Rolm (to measure growth), If attempting hydroposite, see article above.		Togoge Students watch a time lapse video and make observations shows -	Lab Activity:		
Ra	sale 1: Presenvez Plene powiego que Plenes-changing esté hier assense. Mos Ada pertentin miser pales por sen ada hierans with a sease when you know. nam Devolop a smokh of a planes (bale al de powi) mensionare Stanlown, chare char ly plane makel to which de a dan. vola 2: Planesenvez A. Planes (sear Mine)		growth), If attempting hydroponics, see article above. Science Kit Constains: Coconst ceit, hydroponics nutrients, reset bacil week, pH		plant growing. They ask questions about it and then develop a model, dowing what energy and matter a plant needs to grow. Explain	Equiparties Agraphics Instructions Hydroponics Instructional Docs		
24	and 2 Phenomena Air Plann (ware like)		paper, unition rape.		Statems observe mater lifes and air plants and real thest explanations about the plants. The students develop models to revise their original detailant about the oursey and matter of about our Distance.	Supplier		
			Studewa being from home: 2-liter pop-hotele		plan and carry out an investigation to confirm what energy and matter plan and carry out an investigation to confirm what energy and matter plants need in order to prove Stadents collect and and/or and inter-	2 - liter bottle, water, water plant (prefferred) though		
		40 min			Togs for functions that the first length of the set of multi-distribution of derive- facer proves the set of the set of the set of multi-distry and the set of the set of the balance down sets this task of a plane as the grant of the set of the distribution of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the	an herb plant such as mint, bamboo works well too, water nutrients, pH paper, a small recover land the		
					te-grow, specifically air and water (matter) and satilght (energy). Students will also use this investigation to explain why water likes and air plants are	prefferred) (most small aquiponics will not handle a field well.)		
C.e Ra	her Brading about hydroposics. non-Studiens develop a new model of an air/waverplane.				die te pos	· en val. J		
24	nomiane Write as replacation for how as at/many hydroposis plane works. remew: Appopula	30-45 min for						
C.	her Bulitally despectively apapentics consider and measure growth over a series of days, new Year year collected data do not year plants growth.	30-45 min for setup and 5-10 min over a couple of works to collect data						
	munitate Contrast at oplanation for here yes an gree plant without soll.	compared weeks						
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	Beneric Benenic Beneric B	30 min 30 min 1 kmr 20 min 30 min 30 min	Openal Many runs for the spectra for the second sec			Annungen strategy belan betaling as to be also any one of the strategy of the	Regressing Designs	In A the contrast two starts in the contrast two stwo starts in the contrast two starts in the cont
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	Person Secure A secure Secure A	30 mini 30 mini 11 hour 20 mini 40 mini 40 ditanis	Opaned Hangs ratio for the second sec			Perspective control of the second se	* ************************************	
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	Berner H. Berne H. Berner H. Berner H. Berner H. Berner H. Berner H. Berner H. Be	30 mini 30 mini 11 hour 20 mini 40 mini 40 ditanis	Opaned Hangs ratio for the second sec		Fisher Research Fisher Res	Compared and any sector of the sector o		
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IXT	I GRADE STEM STORYLINES				Engineering Lemons (1000, 2000, 2009), consistence admired internation bisaring	herne Kenhen Statematic stere Scoren isters Inclusion					
			Sapplies needed (Every storyline requires a student journal) Most Storylines use a google slideshow, but it is not	Cross-Carricular	Utab Core State SEEd Allemanet			Disciplinary Core Ideas (DCI) codes		Quick Links to SEEd CANVAS	Quick Links to Amy's Drive
	6th SEEd Module Storylines QUARTER 1	Approx.	Most Storyliner use a google slideshow, but it is not always required to use it: Supplies needed:		Utah Core State SEEd Alignment	Science and Engineering Practice (SEP)	Standards (CC) Science and Engineering Practice (SEP)		Amondents	Modules.	(google slides, student journal files)
		Pacing		Cross-Curricular Activities		Cross-Catting Standards (CC)	Practice (SLP)	Ideas (DCI) codes			
	CANVAS 6.2.1 Energy Affects Hetter Geogle Drive 6.2.1 Energy Affects Hetter				Standard 6.2.1 Develop models to how that molecules are made of different binds, propertions and quartities of areas. Emphasise understanding that there are differences between zone and molecules, and that certain combinations of areas form specific molecules. Examples of simple molecules combinations of areas form specific molecules. Examples of simple molecules combinations of areas form specific molecules. Examples of simple molecules (2021) (201.A).						
	Students explore the phenomena of the size of atoms and the difference between salt and sugar.	30 min				Scale Disportion & Quanty Supplemental Resources:	Developing and Using Models	(PS1) Marter and It's Interactions			611
	ult and sugar. Students play a card game called Kings and Serfs, to determine how atoms combine to create molecules. (this can be split into rwo 30 min days or shortsned depending				Teacher Resources:	Engineering Design:		_		612 MISSION TO MARS	612 MISSION TO MARS
	on time)	1 hear				01 Building Blocks of the World Supplies:		- 1			
				Puppet Play! [1]		Engineering Design: 04 Kings and Serfs		_			61)
		1 hear				Supplies:		- 1			
	Students create their own molecules with appose correct perpertions. They relate pictures of neal molecules to the ones they make. (this can be split into two 30 min days or downand dependent on time)					Support		- 1		6.2.1 Energy Affects Matter	6.215NERCY AFFECTS MATTER
_		_				Engineering Design:		_			622
					Standard 6.2.2	05 Out of Phase					
					Standurd 6.2.2 Develop a model to predict the effect of hart energy on status of matter and density. Exploates the arrangement of particles in states of matter (solid, liquid, or gpc) and during place charges (melting, fronting, condensiting, and expresenting). (PSLA, PSLA)	Supplies:		- 1			
	622				evaporating). (PSLA, PSLA)			_			623 624
								_			631 632 632
	623					Engineering Design: 06 Heat My House					
					Standard 6.2.3 Plan and carry out an investigation to determine the relationship between temperature	Subplies:		- 1			
					Standard 42.3 Plan and curry out an investigation to determine the ndarisondup between temperature the amount of their standards, and the change of average particle motion in various types or amounts of nature. Temphosis meeting and evaluating data, and communicating the nucleo data investigation. (95.3.4)			- 1			634
											641 642
											643
					Standard 6.2.4 Design an object, tool, or process that minimizes or maximizes hear energy transfer. Meanly check and commutine, dowlog a proceeping for brazilies testing, analyse design from torating, and propose modifications for optimizing the design solutions. Temphania demonstrating how the structures of different prantical different time to function as either conductors or instances. (PS) A, PS) 38, ETS1 A, ETS1 A, ETS1 C.						
	624					-					645
	Quarter 2: Ecosystems				Standard 6.4.1 Analyze data to provide evidence for the efficits of tensource availability on organisms						
	6.4.1 FOSS KIT POPULATIONS AND ECOSYSTEMS				And population in an ecosystem. Ask questions to predict how charges in resource and populations in an ecosystem. Ask questions to predict how charges in resource analability affects organisms in those ecosystems. Examples could include water, feed, and living space in Units environments. (LS2.A)						
	Milwood bugs investigation (ALTERNATE: Burnetly Investigation.) Part 1: What does a population of invests need to survive in a classroom?										
	Part 2. What needs to be considered when building a habitat for insects? Part 3. How do insects reproduce & grow?				https://tessachepset.org/sites/						
					Standard 6.4.2 Construct an oplanation that poellers partners of interactions among organisms across multiple acosystems. Emphasias constants instructions in different environments such as competition, poelation, and trattalism. (LS2A)						
					sussessment such at competition, production, and mutualism. (LS2.A)						
								_			
	643				Standard 64.3 Develop a model to describe the cycling of matter and flow of energy among Bring are molening parts of an ecosystem. Emphasize fixed with and the role of produces, commens, and decomposes in various ecosystems. Examples could locked Uah ecosystems each at measuristic, Grant Stati, wethink and dearms (1223)			- 1			
					consumers, and decomposers in various ecosystems. Examples could include Utah ecosystems such as mountains, Groat Salt Lake, wetlands, and deserts. (LS2.B)			-			
	Google Sildes 6.4.4 Stability of Populations				Standard 6.4.4 Construct an argument supported by evidence that the stability of populations is			_			_
					Standard 6.44 Construct an argument supported by evidence that the stability of populations is afficient by changes to an ecosystem. Ecosystem how changes to bring and a onliving components in an accounter affect population in that ecosystem. Ecosyste condu- lended Unde conjustment scenarios, Great Sub Like, wellande, and deserve. (ESEC)			- 1			
	Episode 1: How did wolves change the flow of the rivers in Yellowstone?				(152.C)			_			
								-			
	Quarter je Weather										
					Standard 6-45 Dahan competing dasign solariton for possering ecosystem resources and dischareity based on how well the solariton maintain adding within the accounter. Employee the datasting orderating and accounting information of difficing doops replace or addition for the posseriation data symposium resource aperts (1) to UAs ach- arized status quality and provention of sell emission. [ESEC, ESED, ETSLA, ETSLB, ETSLC]			- 1			
					implasmi containing, evaluating and communicating information of differing design solutions. Examples could include policies affecting acosystems, responding to invasiv species or solutions for the preservation of acosystem resources specific to Utah, such						
	6.4.5				air and water quality and prevention of soil ension. (LSLC, LS4D), ETSLA, ETSLB, ETSLC)			_			
								_			
	Google Drive 63.1 Clarke Planetarium				Standard 6.3.1 Develop a model to describe how the cycling of water through Earth's systems is driver by energy from the Sats, gravitational forces, and density. (ESSEC)			_			_
	Google Drive 6.3.1 Clarke Planetarium				by energy from the Sun, gravitational forces, and density (ESSLC) Teacher Resources:	Supplemental Resources:					
						Engineering: 02 Paint the Sky with the Stars					
	632				Standard 6,3.2 Investign the interactions between its masses that cause changes in weather conditions. Clicks and analyse weather dus to provide evidence for how at masses flow from regions of high pressure to low pressure causing a change in wander. Example of dus conditions could include field observations, laboratory experiments, wather maps, or diagrams (ISS2-C, ISS2D)						
					now mean regions of high pressure to low pressure causing a change in weather. Examples of data collection could include field observations, laboratory experiments, weather maps, or diagrams (ESS2.C, ESS2.D)						
-					Sundard 6.3.3						_
					Standard 6.3.3 Doolog out ou a model to show how surquid harding of Earth's synonse cases partners of atmospheric and searatic circulation that disturnise supposed distances. Emphasis how warns water and at nows frees the aquater toward the pelos. Example of model could function lich hang single partners such as labe-filter and viscentine temperature investions, (ESELC, ESELD)	x					
	633				or motels could include Utah regional parterns such as lake-office and winnertime temperature lowersions. (ESS2.C, ESS2.D)						
	Quarter & Astronomy										
	, 7				Standard 6.3.4 Ceterrar an explanation supported by evidence for the network of the neural goverhouse direct in Early strongy shalance, and show it enables the source on Earch Examples could include comparisons between Earch and other planets such at Vissus and Marx. (SSED)						
	634				could include comparisons between Earth and other planets such as Venus and Mars. (ISS2.D)						
	Google Drive 6.1.1 Now you see me, Now you Don't					Engineering Design:					
					Sundard 61.1	01 Eudoxus of the Universe					
					Jamma 6	Supplies:					
_	6.1.2 Mission to Mars	-									
	6.1.2 Mitation to Mars CANVAS 6.1.2 Mission to Mars Geogle Drive 6.1.2 Mission to Mars				Standard 6.1.2 Develop and use a model to describe the role of gravity and insertia in orbital motions of objects in our solar system. (ISS1.8)	d					
	Episode 1: Hall Mary Passes and drawing trajectories Episode 2: Mass experiments with 'asteroid'. Students watch a section from the Roving to Mars documentary.	30 min 15min			PD: https://www.kom.com/share/15a2fcba01c54ec6b713b54cd8812f7 Teacher Resources:	Supplemental Resources:					
	noving to Mary documentary.		For Mini experiment one: Flour, Marbles, Paper, Bowl or		ISBART INCOMPLEXE	Engineering Design: 02 Paint the Sky with Stars					
		15 min	plastic container For Rocket: 1900-2 litter bortles, 1200 egg in a ziploc bag (1 per rocket), Bubble wrap Cornon balls fabric tape atploc bags			02 Paint the Sky with Stars Supplies:					
	Students study the surfaces models that humans have used to explore space and list proto or costs of each that they can determine.		rot cocket was some botten, ar nygg at a speet og (a per rocket), Bubble wrap Cornen balls fabric tape atplec bags ruhber bands timer scale other building supplies may be used.								
	provos sons of each that they can determine.		scase other traileding supplies may be used.								
		Split this owr multiple days- it will take =2-4 hours.									
	Students desire their own noder this to resource - 9 from to **	hours.									
	Sendents design their own tocket thip to transport a Roser (raw egg) to Mars, endents must delegn and build a capeale, tort then robuild.					Engineering Design:					
					Standard 6.1.3 Das comparational thinking to andyne data and domension the scale and properties of dispers in the solar grown. Examples of scale could lackade size and datases. Examples of properties could include layers, comparations, surface frames, and edited tables. The assessment could include layers, temperature, surface frames, and edited and numbers. Types of data could actually appeared between the scale of the scale dispersion of the scale layers of the scale scale scale properties, and models (TSSI. J. 2013.)	03 Mission to Mars					
					of properties could include layers, temperature, surface futures, and orbital tadius. Data sources could include Earth and space-based instruments such as telescopes and satellites. Types of data could include graphs, data tables, drawings, photographs, and	Supplies:					
	613				models. (ISSLA, ESSLB) crash course distances						

SIXTH GRADE STEM STORYLINES	Supplies needed (Every storyling requires a student lowroof)	Englineering Lancoux (Instantion of the Instantion of the Instantion of the Instantion of the Instantion of the			Disciplinary Fore		Quick Links to SEEd CANVAS Modules.	Quick Links to Amy's Drive
6th SEEd Module Storylines		Urah Care State SIEd Alignment	Science and Engineering Practice (SEP)	Cross-Catting Standards (CC)	Disciplinary Core Meas (DCI) codes	Assessments	Modules.	Quick Links to Amy's Drive (geogle elides, student journal files)
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SIXTH GR	ADE STEM STORYLINES		Engine	eering tanasea. Unite filling and ta conference defend the conference for depth	en band and integrated atom for construction that the series					
	óth SEEd Module Storylines	Supplier needed (Every storyline requires a student journal) Mast Storylines was a gosgle slideshow, but it is n always required to use it:	Cross-Carricular Activities	Utah Core State SIZ4 Alignment	Science and Engineering Practice (SEP)	Cross-Catting Standards (CC)	Disciplinary Core Ideas (DCI) codes	Assessments	Quick Links to SEEd CANVAS Modules.	Quick Links to Amy's Drive (gaugie slides, student journal files)
		always required to use it:								
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SIXTH GR	ADE STEM STORYLINES		Engine	eering tanasea. Unite filling and ta conference defend the conference for depth	en band and integrated atom for construction that the series					
	6th SEEd Module Storylines	Supplier needed (Every storyline requires a student journal) Most Storylines use a gosple ilde duoe, but it is ne always required to use it:	Cross Carricular Activities	Utah Core State SIZ4 Alignment	Science and Engineering Practice (SEP)	Cross-Catting Standards (CC)	Disciplinary Core Ideas (DCI) codes	Assessments	Quick Links to SFEd CANVAS Moduks.	Quick Links to Any's Drive (google slides, student journal files)
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SIXTH GR	ADE STEM STORYLINES		Le,	givering tencon. Interchline, and conclusion elected intercelse learning	ndiadaadatapatel inn laandatababaang					
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		always required to use it:								
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SIXTH GR	ADE STEM STORYLINES		Engineering Lessons	t to an difference of the second s	endenberlatgend steelensetterbelande					
	6th SEEd Module Storylines	Supplier needed (Every storyline requires a student journal) Most Storylines use a gosple ilde duoe, but it is ne always required to use it:	Cross-Carricular Activities	Utah Core State SEEd Alignment	Science and Engineering Practice (SIP)	Cross-Catting Standards (CC)	Disciplinary Core Ideas (DCI) codes	Assessments	Quick Links to SEEd CANVAS Modules.	Quick Links to Any's Drive (google slides, student journal files)
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SIXTH	I GRADE STEM STORYLINES			Engineering Lessons lates (hits: gogle conference chitsed constraine launingth	endendered stepated sterr leases bird at the set of					
		Supplies needed (Fuers stording continues a student lowersal)	Cross Carriestar			Constanting	Disciplinary Core	Auguments	Quick Links to SEEd CANVAS Modules.	Ouick Links to Amy's Drive
		Supplies needed (Every storyline requires a student journal) Most Storylines use a google slideshow, but it is not always required to use it:	Activities	Utah Core State SEEd Alignment	Science and Engineering Practice (SEP)	Cross-Catting Standards (CC)	Ideas (DCI) codes	Assessments	Modules.	Quick Links to Any's Drive (geogle slides, student journal files)
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Modules highlighted <mark>red</mark> c	ire not availble yet.					
INDERGARTEN	1ST	2ND	3rd	4TH	5тн	6тн
.1.1 & K.1.2 Weather atterns	<u>1.1.1 & 1.1.3</u> Here comes the Sun (Predictable movement of the Sun,	<u>2.1.1 & 2.1.2</u> Earth's Changing Surface	<u>3.1.1 , 3.1.2 & 3.1.3</u> Weather and	4.1.1 Organisms Structures &		
	Moon & Stars) <u>1.1.2</u> It's that time of	(Landforms)	Climate Patterns	FUNCTIONS	5.1.1 Earth Features	6.1.1
<u>.1.3 & K.1.4</u> Effect of unlight	year! (Patterns of Sunlight, observed over a Year)	<u>2.1.3</u> Land Changes (Quick & Slow Land Changes)	<u>3.2.1</u> Circle of Life (Life Cycles)	<u>4.1.2 Memory Systems</u> (How Animals <u>Respond</u>)	<u>5.1.2 Saltwater and</u> <u>Freshwater</u>	6.1.2 Mission to Mars
.1.4 Building a Shade helter - UNDER EVISION	1.1.3 Turn on the Sunlight (Patterns of Daylight)	<u>2.2.1 & 2.2.2</u> Habitats & Animals	<u>3.2.2</u> Oh I just Can't Wait to be King! (Inherited Traits)			6.1.3
. <u>2.1 & K.2.2</u> Survival Teeds of Animals	<u>1.2.1 Effects of</u> Sunlight on Plant Growth	2.2.3 HAND POLLINATORS (STRUCTURE & FUNCTION OF ANIMALS/BIRDS)	3.2.3 Slimy, Yet Satisfyino! (Environments Affect traits)	<u>4.1.3 Oh, Fossil! Where</u> <u>Are you? (Fossils &</u> <u>Ancient</u> Environments)	5.1.3 Weather or Not	6.2.1 ENERGY AFFECTS MATTER
	<u>1.2.2 & 1.2.3</u> Animals & Habitats	2.2.4 Biomimicry (How Humans Mimic Nature)	3.2.4 BE PREPARED	4.1.4 Call to Order (Rock Layers)	5.1.4 Amazing Race (Earth's Systems: Geo, Bio, Hydro, Atmo)	6.2.2
<u>5.2.3 & K.2.4 Survival of</u> The Creative (Survival	<u>124</u> Animals &	2.3.1 PROPERTIES OF	32.5 & 3.2.6 REMEMBER WHO YOU ARE (HOW AN ECOSYSTEM WORKS TOGETHER TO SUPPORT SURVIVAL & CHANGES IN AN	4.2.1 Take me out to The ballgame (Energy Transfers: Cause &	5.1.5 Survivor (Reduce Effects of Natural	
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	134 Can you hear me now? (Communicating using sound or light.)	2.3.4 I'm Melting (Changes in Matter Caused by heating & Cooling)	<u>333 Gravity!</u>		5.2.2 PROPERTIES OF MATTER	6.3.2
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				<u>4.4.1 & 4.4.2 Clark</u> Planetarium	<u>53.4 Rescue</u> Environments with Utah Lake Study	6.4.3
				4.4.1 BRIGHTNESS OF STARS	5.3.4 MINING & RECLAMATION	6.4.4
				<u>4.4.2 Making Sense of</u> <u>Shadows</u>	<u>5.3.4 Be Aware of Our Air</u>	6.4.5

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K14 BUILDING A SHADE SHELTER - UNDER REVISION		2216222 HABITATS & ANIMALS	333 GRAVITY			623	JRD TERM	K.1.3	1.1.3	2.1.3	3.3.3	4.1.3	5.1.3	6.2.3		41.1		225	51.1		11%	6.2.1	3	21%
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E216 E22 OF PLANTS E236 E24 SURVIVAL NEEDS	121 EFFECTS OF SUNLIGHT ON PLANT GROWTH	2.2.4 BIOMIMICRY (HOW HUMANS MIMIC NATURE)	335 MAGLEV TRAINS	414 CALL TO ORDER (BOCK	SL4 AMAZING BACE EARTHS SYSTEMS: GEO BE HYDRO ATMON SL5 SUBWYYOR (REDUCE)	641 FOSS POPULATIONS AND ECOSYSTEMS		K.2.1	1.2.2	2.2.2	3.3.5	4.2.1	5.1.5	6.4.1		413	4	24%	51.3	3	33%	6.2.3	4	29%
	<u>122&123</u> Animals & Habitats	2.31 PROPERTIES OF MATTER 2.32 BUILDING & BRDHOUSE	335 SOLVING PROBLEMS WITH MAGNETS		EFFECTS OF NATURAL	642		K.2.2	1.2.3	2.2.3	3.2.1	4.2.2	5.2.1	6.4.2		414	5	29%				6.2.4	5	36%
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	LIGHT OF MINE (EXPERIMENTS WITH LIGHT)	234 DA MELTING (CHANGES IN MATTER CAUSED BY HEATING & COOLING)	32.3 SLIMY YET SATISFYING (ENVIRONMENTS AFFECT. TRAITS)		522 PROPERTIES OF	645		K.3.1	1.3.2	2.3.2	3.2.4	4.3.1	5.2.4	6.4.5		42.1	4	33%	5.1.4	2	29%	6.4.1	4	17%
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		Other Links What is available here?
Storytelling?	https://www.ineurosci.org/content/39/42/8285	https://www.SEEd Storylines with powerpoints, Lesson plans, teacher notes
	Narrative improves information processing. Glaser, M, Garsoffky B, Schwan S (2009) Narrative-based learning: possible benefits and problems. Communications 34:429-447.	https://sites. Pre-made 3D lesson plans
	Hong HY, Lin-Siegler X (2012) How learning about scientists' struggles influences students' interest and learning in physics. J Educ Psychol 104:469.	https://docs. A series of pre-made NEARPOD lessons
	Narrative increases recall of any scientific material presented in the story.	
	Töpper J, Glaser M, Schwan S (2014) Extending social cue based principles of multimedia learning beyond their immediate effects. Learn Instruction 29:10–20.	https://emed UEN Hub
	"As you hear a story unfold, your brain waves actually start to synchronize with those of the storyteller." Uri Hasson, Professor of Psychology and Neuroscience, Princeton Universit	y (via NPR's ShortWave)
	"the areas involved in guessing what will happen next are activatedwhich reinforces the memory." Liz Neeley, former Executive Director of The Story Collider (and marine biolo	gist)
	Eliciting emotional arousal likely improves the odds that listeners will not only engage with the material, but also act on it as a result. Morris BS, Chrysochou P, Christensen JD, Orq	uin JL, Barraza J, Zak PJ, Mitkidis P (2019) Stories vs. facts: triggering emotion and action-taking on climate change. Climatic Change 154:19-36.
	"Stories about how scientists struggled either intellectually or in their personal lives, and then overcame those struggles, have been shown to improve not only the engagement of h	igh school students in science materials, but also boost academic performance," Lin-Siegler et al., 2016
	"First-person narratives, in particular, can make science personally relevant and encourage personal investment in the topic." (Downs, 2014)	

[1] contact Elicia Grey