

7th Grade Science Weekly Agenda 2023 - 2024

[Link to Mrs. Stokes' Bellringer Slides](#)

[Link to All Teachers' Agendas](#)

1st Semester Week 1: August 16th - August 18th

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson / Topic	Add: Notebooks/ Importance of Notebooks w/ personalization Read Like a Scientist intro/ grading		Introductions	Cup Stacking / Team Building	GC & Take Beginning of Year Survey Success in Science Task #1-2 Create Pg. 1& 2 in INB
EQ			Who is Mrs. Stokes?	What skills do I need to be successful in science?	What procedures do I need to follow in Mrs. Stokes' classroom?

Week 2: August 21st - August 25th

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson/ Topic	1st Bellringers- why bellringers? Lab Safety & Contract Success in Science Task #3-5	Notebook: What is a Scientist?	CER Intro / Notebook: CER Notes	CER Practice	Lab Safety Contract Due Week 2 Notebook Check & Science Skills Webquest
EQ	What should I do to be successful in science?	What should I do to be successful in science?	What is CER?	How do I use CER in science?	How do I use my tools to be successful?

Week 3: August 28th - September 1st

	Monday	Tuesday	*Wednesday	Thursday	Friday
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Lesson/ Topic	The Scientific Method Lab: Double?	The Scientific Method: Fortune Fish	Earth's Spheres Review Doodle Notes Spheres Webquest	Earth's Landforms Review	Week 3 Notebook Check Planets of Our Solar System Refresher
EQ	How can I use the scientific method to help me answer questions?	How can I use the scientific method to help me answer questions?	How does our understanding of Earth help us learn about other rocky planets?	How does our understanding of Earth help us learn about other rocky planets?	How does our understanding of Earth help us learn about other rocky planets?

Week 4: September 5th - September 8th

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson/ Topic	Labor Day	Geology On Mars Lesson 1.1	Geology on Mars 1.2	Geology on Mars 1.3	Week 4 Notebook Check Geology on Mars 2.1 Article: Investigating Landforms on Venus
EQ		How does our understanding of Earth help us learn about other rocky planets?	How can we gather more evidence about whether lava or water formed the channel on Mars?	How does our understanding of Earth help us learn about other rocky planets?	How can we gather more evidence about whether lava or water formed the channel on Mars?

Week 5: September 11th - 15th

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson / Topic	Skittles Erosion Lab	Geology on Mars 2.2: Stream Table	Geology on Mars 3.1 Evidence Gradient Notes (Rock Observations)	Week 5 Notebook Check, GOM Learning Log , Review	Geology on Mars Test Gravity Extension
EQ	How can we gather more evidence about whether lava or water formed the channel	How can we gather more evidence about whether lava or water formed the channel on	How can we gather more evidence about whether lava or water formed the channel on		How can we gather more evidence about whether lava or water formed the channel on

	on Mars?	Mars?	Mars?		Mars?
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Week 6: September 18th - 22nd

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson / Topic	Plate Motion Pretest Gravity Extension	Earth's Layers Doodle Notes	Density Inquiry Activity	Density Lab	Convection Notes
EQ	How and why do we reflect on learning?	Why does the Earth have layers	Why does the Earth have layers?	Why does the Earth have layers?	What causes plate motion?

Week 7: September 25th - 29th

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson / Topic	Continental Drift Theory Scavenger Hunt	Plate Tectonics Puzzle	Plate Boundary Notes	Plate Snacktonics Notes	*Week 7 Notebook Check Mystery Science Picture
EQ	Why are fossils of species that once lived together found in different locations on Earth now?	How did the South American Plate and African Plate move?	How did the South American Plate and African Plate move?	What are the characteristics of plate boundaries?	How did the South American Plate and African Plate move?

Week 8: October 2nd -6th

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson / Topic	Day 1: Earthquake Tower Challenge Research	Day 2 : Earthquake Tower Build Day	Day 3 Earthquake Tower Test & Rebuild	Day 4 : Earthquake Tower Final Test & Reflection	The Ring of Fire
EQ	What is the best structure to minimize earthquake damage?	What is the best structure to minimize earthquake damage?	What is the best structure to minimize earthquake damage?	What is the best structure to minimize earthquake damage?	What are the characteristics of plate boundaries?

Week 9: October 9th - 13th (End of 1st Quarter)

	Monday	Tuesday	Wednesday	Thursday	Friday (End of 1st Q)
Lesson/ Topic	Volcano Doodle Notes	Volcanoes Models	Listening To Earth Article Annotations	Boundary Features Missions	Week 9 Notebook Check/ Magma Lightbox
EQ	What are the characteristics of plate boundaries?	What happens to the plates and the mantle at plate boundaries?	What happens to the plates and the mantle at plate boundaries?	What happens to the plates and the mantle at plate boundaries?	

Week 10: October 16th - 20th

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson/ Topic	Missing Assignment Day	Iceland's Plate Boundary Worksheet	Relative Dating Notes	Fossil Record Notes	Week 10 Notebook Check Fossils *Extra Credit Due
EQ		What happens at plate boundaries?	How do we determine the oldest layer in a cross section of Earth's layers?	How do fossils provide clues about Earth's history?	How do fossils provide clues about Earth's history?

Week 11: October 23rd - 27th

	Monday	Tuesday	Wednesday (PT Conferences 4:30pm - 8:00pm)	Thursday (PT Conferences 8am-8pm)	Friday (No School)
Lesson/ Topic	Mesosaurus Fossils Article	Mesosaurus Fossil One Pager (Due 10/30)	Mesosaurus Fossil One Pager (Due 10/30)	Student Led Conferences	Missing assignment Day!
EQ	How did the Mesosaurus fossils on the South American Plate and African Plate get so far apart?	How did the Mesosaurus fossils on the South American Plate and African Plate get so far apart?	How did the Mesosaurus fossils on the South American Plate and African Plate get so far apart?		

Week 12: October 30th - November 3rd

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson / Topic	Fossils Notes	Plate Motion Science Portfolio & Learning Log	Plate Motion Learning Log & Test Review	Plate Motion Test & Learning Log Due	Rocks 2.2: Devil's Tower Article
EQ	How did the Mesosaurus fossils on the South American Plate and African Plate get so far apart?	How do plate boundaries shape Earth's surface and contribute to natural phenomena like earthquakes and volcanoes?	How do plate boundaries shape Earth's surface and contribute to natural phenomena like earthquakes and volcanoes?	How do plate boundaries shape Earth's surface and contribute to natural phenomena like earthquakes and volcanoes?	What processes create and transform rocks and how do these changes impact Earth over time?

Week 13: November 6th - 10th

	Monday	Tuesday	Wednesday	Thursday (AVID Visit)	Friday Assembly
Lesson / Topic	Rock Transformation 1.2	Rocks 1.3	Rock Type Doodle Notes	Weathering Notes 3.2- Notebook	Week 13 Notebook Check & Rocks Escape Room
EQ	What processes create and transform rocks and how do these changes impact Earth over time?	How do rocks form and change?	What processes create and transform rocks and how do these changes impact Earth over time?	How do rocks form and change?	What processes create and transform rocks and how do these changes impact Earth over time?

Week 14: November 13th - 17th

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson / Topic	Rock Cycle Investigation	Rocks 2.4: Write and Share Rock Show & Tell - Bring in your Rocks!	2.5 Quiz	Rock Cycle Escape Room	Rocks 3.3/ 3.4 Rock Game Worksheet

EQ	How do rocks form and change?	How do rocks form and change?	How do rocks form and change?	How do rocks form and change?	How do rocks form and change?
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Week 15: November 27th - December 1st

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson / Topic	Rock Cycle Comic Unit Assessment	Rock Cycle Comic Work Day	Rock Cycle Comic Work Day & Rocks & Soil Worksheet	ISAT Interim - ESS1 Rock Cycle Comic DUE	Magnetic Fields Lesson 1.2 Notes
EQ	What did I learn about Earth Science this year?	How can you tell whether two magnets will attract each other, repel each other, or both?	How can you tell whether two magnets will attract each other, repel each other, or both?	How can you tell whether two magnets will attract each other, repel each other, or both?	How can you tell whether two magnets will attract each other, repel each other, or both?

Week 16: December 4th - 8th

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson / Topic	Magnetic Field Lesson 1.3 Article : "Earth's Geomagnetism"	Magnetic Fields Lesson 1.5 Field Line Notes	Earth's Magnetic Fields 1.6 Article	Magnetic Fields 1.6 Investigation : Making S Compass	Week 16 Notebook Check & Webquest
EQ	How can magnets cause objects to have kinetic energy?	How can magnets cause objects to have kinetic energy?	How does a system of magnets store potential energy in the magnetic field?	How can magnets cause objects to have kinetic energy?	

Week 17: December 11th - 15th

	Monday	Tuesday	Wednesday	Thursday	Friday (Service Day)
Lesson / Topic	Magnetic Fields Lesson 2.1 Jigsaw The Potential for Speed	Magnetic Fields Lesson 2.3 & 2.4 Magnetic Force and Potential Energy	PhET Lab	Magnetic Fields Study Guide & Review	Magnetic Fields Test

EQ	How are electricity and magnetism related?	How do magnetic forces affect potential and kinetic energy?	What are the qualities of an electromagnet or a permanent magnet?	What affects the amount of potential energy in the magnetic field when a magnet is moved against a magnetic force?	
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Week 18: December 18th - 21st

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson / Topic	MythBusters: S1E9 3-2-1	Magnetic Fields Science Portfolio & Learning Log	Electromagnet Virtual Lab	Virus Snowflakes	Winter Break

2nd Semester, Week 1: January 8th - 12th

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson / Topic	New Year Mingle	Goal Setting & Expectations Bingo	2nd Semester Notebook Setup Atomic Structure Notes	Build an Atom PhET	Expectations Quiz Finish Notes & Build an Atom PhET Extra: Chemistry of Fireworks
EQ	How can I be successful in 2nd semester science?	How can I be successful in 2nd semester science?	What is matter composed of?	What is matter composed of?	Why do different substances have different properties?

Week 2: January 16 - 19th

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson/ Topic	Martin Luther King Day	The Periodic Table Webquest Acc Trad Mod	Periodic Table Battleship	Molecules and Compounds Notes	Bohr Models Notes
EQ	Martin Luther King Day	How can you determine the number of atoms in a molecule?	What is the periodic table and how is it organized?	What is the Periodic Table?	How can atoms combine?

Week 3: January 22nd - 26th

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson/ Topic	Reaction In A Bag Lab & Notes	Molecules and Compounds Notes Molecules Practice Worksheet (Due Friday)	Chemical Formulas Notes	Physical Change vs. Chemical Change Notes Counting Atoms Practice	Week 3 Notebook Check Chemical vs Physical Changes Observations

EQ	How can atoms combine?	What happens to atoms during a chemical reaction?	What happens to atoms during a chemical reaction?	What happens to atoms during a chemical reaction?	What happens to substances during a chemical reaction?
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Week 4: January 29th- February 2nd

	Monday	Tuesday	Wednesday	Thursday	Friday (no school)
Lesson/ Topic	Chemical Reactions Demo Day	Endo & Exo Experiments Lab	Balancing Equations	Law of Conservation Article	Teacher Work Day
EQ	How does the law of conservation apply to chemical reactions?	How does the law of conservation apply to chemical reactions?	How does the law of conservation apply to chemical reactions?	How does the law of conservation apply to chemical reactions?	

Week 5: February 5th - 9th

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson/ Topic	Counting Atoms in Chemical Formulas Worksheet Slides	ISAT Interim/ Learning Log , Science Portfolio	Week 5 Notebook Check Review: CR Study Guide	Chemical Reactions Test	The Final Reaction *Learning Log & Science Portfolio Due
EQ	What happens to atoms during a chemical reaction?	What determines an organism's traits at the molecular scale?	What happens to atoms during a chemical reaction?	What happens to atoms during a chemical reaction?	What determines an organism's traits at the molecular scale?

Week 6: February 12th - 16th

	Monday	Tuesday	Wednesday	Thursday	Friday (no school)
Lesson/ Topic	Traits 1.2 Notes	Traits 1.3 Thinking Map	Traits 1.4 Article	DNA Structure Doodle Notes	Missing Assignment Day!
EQ	What determines an organism's traits at the molecular scale?	What determines an organism's traits at the molecular scale?	What determines an organism's traits at the molecular scale?	What is mitosis?	

Week 7: February 20th - 23rd

	Monday	Tuesday	Wednesday Tech Free	Thursday	Friday (Dance)
Lesson/ Topic	President's Day	Mitosis Notes & Mitosis Virtual Lab Mitosis Resources	Mitosis Modeling	Meiosis Notes & Meiosis Check Assignment	Asexual & Sexual Reproduction Hyperdoc
EQ	President's Day	What is meiosis?	What is meiosis?	What are the differences between meiosis and mitosis?	What are the differences between meiosis and mitosis?

Week 8: February 26th - March 1st

	Monday	Tuesday	Wednesday	Thursday	Friday (Teacher Workday)
Lesson/ Topic	Traits 3.2 Punnett Squares Notes	Punnett Square practice Notebook Check	Spongebob Punnett Squares Practice	Mutations DBI	Sage Attack!
EQ	How are genes and proteins related? How do genes affect proteins?	How are Punnett Squares used to predict traits of offspring?	How are Punnett Squares used to predict traits of offspring?	How are Punnett Squares used to predict traits of offspring?	

Week 9: March 4th - 8th

	Monday	Tuesday	Wednesday	Thursday	Friday
Lesson/ Topic	Punnett Squares (Codominance/ Inc. Dominance)	Traits and Reproduction Traits Unit Project Questions - Due Monday, March 4th	Traits and Reproduction Traits Unit Project	Traits Unit Project / Traits Learning Log	March Mammal Madness Brackets
EQ	How are Punnett Squares used to predict traits of offspring?	How are Punnett Squares used to predict traits of offspring?	How are Punnett Squares used to predict traits of offspring?	How are Punnett Squares used to predict traits of offspring?	

Week 10: March 11th - 15th (End of 3rd Quarter)

	Monday	Tuesday MMM- WILD CARD	Wednesday	Thursday (Assembly Sched) MMM-Round 1	Friday MMM-Round 1
Lesson/ Topic	Finish MMM Brackets and Instagram Post	Genetic Engineering Notes / Intro to Philosophical Chairs	Philosophical Chairs Research Prepare for Philosophical Chairs Thursday	Philosophical Chairs Slides (Alt)	The Blue Planet 3-2-1
EQ		Should we genetically modify our food?	Should we genetically modify our food?	Should we genetically modify our food?	How do births and deaths in a population affect its size?

Week 11: March 25th - March 29th

	Monday	Tuesday MMM-Round 1	Wednesday MMM-Round 2	Thursday MMM-Sweet 16	Friday MMM- Elite Trait
Lesson/ Topic	Teacher Workday	Populations & Resources 1.2 (Intro to Jellies/ Sim)	Populations 1.3 : Glacier Bay Articles/ Multi-Flow Map in Notebook	Populations 1.5 Model Worksheet	Populations 2.1 Articles & Slides Simulation (due Friday)
EQ		What can change the number of births in a population?	What can change the number of deaths in a population?	What can change the number of deaths in a population?	What can affect the size of a population besides its resource or consumer populations?

Week 12: April 1st - 5th

	Monday	Tuesday MMM: Final ROAR (8th Science ISAT)	Wednesday	Thursday MMM: Championship	Friday
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Lesson/ Topic	Populations 2.2 Yeast Experiment	Populations 2.4 Write and Share Critical Juncture	Populations 2.6 Puzzles Assignment	Populations 3.1 "Oh Deer!" Competition Worksheet	Week 12 Notebook Check W12 Bellringer Paper Due MMM: Championship Populations 3.2 Yellowstone Interactive (Teacher Slides)
EQ	What can affect the size of a population besides its resource or consumer populations?	What can affect the size of a population besides its resource or consumer populations?	What can affect the size of a population besides its resource or consumer populations?	What are the types of relationships between populations in an ecosystem?	How can populations affect other populations in an ecosystem?

Week 13: April 8th - 12th

	Monday (32)	Tuesday	Wednesday	Thursday	Friday
Lesson/ Topic	Ecosystem Models: Notes	Slides for Symbiosis Doodle Notes	Symbiosis Bellringer Symbiosis Wanted (Due Monday 4/10)	Symbiosis Wanted (Due Monday 4/10!)	Population Game
EQ	What are the types of relationships between populations in an ecosystem?	How can populations affect other populations in an ecosystem?	How can populations affect other populations in an ecosystem?	How do diagrams show the energy flow through a living system?	How do diagrams show the energy flow through a living system?

Week 14: April 15th - April 19th

	Monday	Tuesday (ELA)	Wednesday (ELA)	Thursday (ELA)	Friday: (No school)
Lesson/ Topic	Lion King Ecology Worksheets	Lion King Ecology	Lion King Ecology	Lion King Ecology	
EQ	What is the impact of environmental variables on population size?	What is the impact of environmental variables on population size?	What is the impact of competitive, symbiotic, and predatory	What is the impact of competitive, symbiotic, and predatory	Missing Assignment Day (No School)

			interactions in an ecosystem?	interactions in an ecosystem?	
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Week 15: April 22nd - April 26th

	Monday-24	Tuesday	Wednesday	Thursday	Friday
Lesson/ Topic	Finish Lion King Ecology; Worksheet Due Earth Day Virtual Field Trip	Biomes Notes	Biome Scavenger Hunt & Biomes Crossword	Populations Chapter 4	Populations Quiz (Open Notes) & Learning Log
EQ	What is the impact of competitive, symbiotic, and predatory interactions in an ecosystem?	What are the major biomes?	How do all the organisms in an ecosystem get the resources they need to release energy?	What could cause the parrot population to change?	What could cause the parrot population to change?

Week 16: April 29th - May 3rd

	Monday- 19	Tuesday (Math ISAT)	Wednesday (Math ISAT)	Thursday	Friday
Lesson/ Topic	Matter & Energy 1.2: Biodome Intro & Files	Matter & Energy 1.3 Articles	Matter 1.4 : Photosynthesis Slides	Finish Matter 1.4 Notes	Photosynthesis Lab
EQ	How do the processes of photosynthesis and cellular respiration create and release energy?	How do all the organisms in an ecosystem get the resources they need to release energy? Energy & Photosynthesis (Short)	How do the processes of photosynthesis and cellular respiration create and release energy? (Photosynthesis model)	How does energy flow in an ecosystem? (Cellular Resp)	How do all the organisms in an ecosystem get the resources they need to release energy?

Week 16: April 29th - May 3rd ALT

	Monday- 19	Tuesday (Math ISAT)	Wednesday (Math ISAT)	Thursday	Friday
Lesson/ Topic	Photosynthesis Hyperdoc	Matter & Energy 1.3 Articles	Matter 1.4 : Photosynthesis Slides (Check for understanding)	Photosynthesis Lab	Matter & Energy 1.2: Biodome Intro & Files
EQ	How do the processes of photosynthesis and cellular respiration create and release energy?	How do all the organisms in an ecosystem get the resources they need to release energy? Energy & Photosynthesis (Short)	How do the processes of photosynthesis and cellular respiration create and release energy? (Photosynthesis model)	How do all the organisms in an ecosystem get the resources they need to release energy?	How do the processes of photosynthesis and cellular respiration create and release energy?

Week 17: May 6th - 10th (Teacher Appreciation Week)

	Monday-14 (Math ISAT)	Tuesday	Wednesday	Thursday	Friday Early Release
Lesson/ Topic	Matter 1.5 WarmUp	Matter 2.1: Decomposers Articles	Matter 1.6: CER Slides	Matter 2.5 Puzzle Paper	Matter 3.2 Carbon Game
EQ	How does energy flow in an ecosystem? (Cellular Resp)	What role do decomposers play in an ecosystem?	Where does the carbon dioxide in abiotic matter come from?	Where does the carbon dioxide in abiotic matter come from?	Where does the carbon dioxide in abiotic matter come from?

Week 18: May 13th - 17th

	Monday-9	Tuesday	Wednesday (Career Day)	Thursday	Friday
Lesson/ Topic	Matter & Energy Quiz/ Matter & Energy Learning Log	Ecology Project	Career Day & Spring Sports Assembly	Ecology Project	Ecology Project
EQ	How does energy flow in an ecosystem?	How do all the organisms in an	No chromebooks needed at school	How do all the organisms in an	How do all the organisms in an

		ecosystem get the resources they need to release energy?		ecosystem get the resources they need to release energy?	ecosystem get the resources they need to release energy?
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Week 19: May 20th - May 23rd (End of 4th Quarter)

	Monday-4	Tuesday	Wednesday Early Release @1:10	Thursday Early Release @1:10	Friday
Lesson/ Topic	Ecology Project Presentations	Ecology Project Presentations & Finish Portfolio	Adopt a Scientist Yearbooks Handout	Final Exam	Summer Vacation!
EQ	How do all the organisms in an ecosystem get the resources they need to release energy?	How do all the organisms in an ecosystem get the resources they need to release energy? Advisory: Practice Signatures?		No Chromebooks	