

Let's share the burden Many geoscientists have already created online materials.				
Use this page to share LECTURES				
REMEMBER ACCESSIBILITY	How to make captions that are accessible	https://themindhears.org/2019/05/01/captions-and-crapions-for-academics/		
Topic	Description	Link		
MIT geoscience courses online	videotaped lectures that were given at USGS facilities			
Basic Geology	MIT geoscience courses	https://ocw.mit.edu/courses/earth-atmospheric-and-planetary-sciences/Geology_1_(The_Science_of_Geology)		
Open University geology lectures	EarthScienceX describes basics of geology	https://www.open.edu/openlearn/science-maths-technology/science/geology		
Sedimentology/Stratigraphy/Paleontology	free courses from UK			
Earth Science	Course lectures from Matt Clapham- detailed lecture slides			
Geoscience Videos	Interactive simulations of earth science processes - can be embedded in PPTs	https://phet.colorado.edu/en/simulations/category/earth-science		
Climate Literacy Youtube Channel	Excellent short videos on a variety of generally intro-level topics	https://www.youtube.com/channel/UCiQdVh8PDyHUIe9q_1eFY0Q		
High resolution topography exercises and demos	Lectures from Univ. of British Columbia red d	https://www.youtube.com/channel/UCMw1E0o9p2_bq9hXkbGw		
High resolution topography lectures and demos	exercises/demos			
	lectures/demos	https://www.youtube.com/user/OpenTopography/playlists		
Oceanography Videos	free courses from UK			
Volcanology virtual fieldtrip to Iceland	covers volcanic landforms and hazards suitable for 1st through 3rd year, #D exploration 360 videos, quizzes etc+e	http://www.ccsf.edu/en/educational-programs/school-and-departments/school-of-science-and-mathematics/earth-sciences/Courses/EarthRocks.htm#ocoon		looks like you need to login as a student for access
Engineering geology virtual fieldtrip	%8oZDFPVGVC practicing field skills like measuring fractures and exploiting using 3D steprec	https://www.holoceneadventures.com/RMC/		
General Earth Science online resources Dezz	Teach the Earth via SETC	https://setc.carleton.edu/teachearth/teach_geo_online/index.html		
One hour(ish) lectures on groundwater research	Videotaped lectures given by 2011-2019 Darcy Award Lecturers	https://www.groundwater.org/lecture/darcyaward-past.html		
Wildfire and Beavers - Can they keep veg green when everything else burns?	crvideotaped webinar by Dr. Emily Fairfax given to the US Forest Service in early 2020dzz_r_zrzed	https://youtu.be/39CWo2QkTJM		
Limnology	Limnology Lecture videos (from Dr Jim Elser, Flathead Lake Biological Station, U Montana) for advanced undergrads@early grad	https://www.dropbox.com/sh/9zru1ep5b098ivAACBHQvYfRbs0e5WxcDU2k1Na?dl=0		
Planetary Science	Mostly self-contained planetary science overview. Around mid-undergrad level of detail. Textbook-like content and arrangement	http://explanet.info/#		
Computers in Geology	various mostly video narrated lessons for earth science topics in Excel, ArcGIS, and Matlab	http://arrowsmith410-598.asu.edu/GLG410-Lectures.html		
Basin Analysis!	narrated basin analysis course	https://figshare.com/articles/Basin_Analysis_-_Structural_style_seismic_expression_and_petroleum_systems/1709933		
Column of the Giants				
TED ED videos	A series of short animations on various topics related to climate change (there are more geoscience videos if you explore)	https://ed.ted.com/series/our-changing-climate		
GeoHub/Liverpool	Geoscience resources for teachers and students on various topics	https://geohub.liverpool.org.uk/		
Virtual field trips from ASU (Anbar & Bruce)	Interactive virtual field trips with science exploration; Earth history, paleontology, anthropology, Upheaval Dome and more	https://vft.asu.edu/		
Marli Miller's Geology Pics	Searchable database of educational and beautiful geology photos	https://geologypics.com/		
van der Pluijm & Marshak's Process of Structural Geology	Online structure text, free to users (thank you!) during COVID-19 shutdown, see https://twitter.com/MarliMillerGeo/status/1238689931578314752 for more info (e.g., login info)	https://psgt.earth.lsa.umich.edu/		
Seismic Interpretation	Youtube channel of my recording Seismic Interpretation lecture on the MSC Petroleum Geoscience programmed here at NTNU Trondheim. Dicky Harishidayat - NTNU Trondheim	https://bit.ly/2GIzlrz		
Earthquakes, Earth structure, plate tectonics online resources	video lectures, animations, classroom exercises, and online data access tools from IRIS	https://www.iris.edu/hq/inclass/		
All Climate and Energy Resources - sortable by UG/Grad level, peer-reviewed	videos, activities, visualizations and more	cleanet.org		
Limnology, Oceanography, Ocean Acidification, Plankton Ecology, Marine Benthos, Radioactivity in the Marine Environment	ASLO's 19 fully annotated E-Lectures	https://www.aslo.org/resources-for-instructors-in-the-aquatic-sciences/		
UTDallas Geoscience Studios	videos and animations on a variety of geoscience topics, for introductory to upper-level audiences	https://www.youtube.com/channel/UC6RcGFZecWMCihRppCqjXFA		
Google Earth for Onsite and Distance Education (GEODE)	A range of different kinds of virtual resources - lecture aids, lab activities, virtual field trips, and educational games, largely aimed at upper-level undergraduate audiences. Products of the NSF-funded GEODE project	geode.net		
Oregon Virtual Field Trips by Shannon Othus-Gault	Within the satellite map you can zoom in and zoom out to see the features up close. A tour of the many geologic formations, landforms of interest, and other local related sites, download Google Earth and the open the .kmz files at the bottom of each page within Google Earth.	Oregon Virtual Field Trips		
University of Illinois Virtual Field Trips	Virtual field trips in the Midwest	https://geology.illinois.edu/virtualfieldtrip/		
Glacial formation, landscapes and climate Records	Lectures recorded at UC Irvine, by Julie Ferguson. Lectures 6-9. YouTube videos of lectures embedded.	http://ocw.uci.edu/courses/ess_21_on_thin_ice_climate_change_and_the_cryosphere.html		
3D mineral and rock samples	Collections of digital 3D models of minerals, rocks, and some fossils	https://sketchfab.com/WUpetrology/collections		
3D models of deformed rocks	The specimens belong to the fabulous structural collection curated by Kamil Ustaszewski at the Friedrich Schiller University in Jena, Germany. Digitized by Marko Vrabec	https://sketchfab.com/okram/collections/rock-deformational/fabrics		
virtual outcrops from U Aberdeen/Bergen groups	V3Geo is a purpose-built site specifically designed for the sharing of virtual 3D models within the geoscience community. The site includes over a hundred high quality virtual outcrop models from across the globe and is set to grow rapidly in the coming months with a wide variety of 3D geoscience data. All models on here are free to use for non-commercial teaching and research purposes.	y3geo.com		
Fluvial geomorphology videos with teaching guide	A unique set of 50 videos demonstrating fluvial form and process made by Little River Research & Design; teaching guide: https://emriver.com/documents/2018/01/geomorphology-videos-teaching-guide-youtube.pdf/	https://www.youtube.com/playlist?list=PLVa74h2F4P2p-mj-KirIa8DSI6D11b		
3D models, virtual outcrops	eRock provides virtual outcrops and samples for the purposes of education, engagement in Earth Science and research. The majority of 3D models are downloadable and free to use.	https://www.e-rock.co.uk/		
Fossils & Paleontology online	Virtual paleontology collection of fossils, digital encyclopedias of life, digital atlas guides to fossils, the Paleontological Research Institution shares a rich and growing array of freely available online educational resources in the Earth and life sciences	https://www.priweb.org/blog-post/learn-at-home?fbclid=IwAR0hZP22fIV1DQC6NqUzpatHduZGXzE_JUP_F4VAAHL6yBy53Yxb8615_Do		
Optical Microscopy demos and mini-lab-lectures for Mineralogy/Earth Materials	A series of YouTube videos (with optional online exercises) filming down-scope and out-of-scope walking students through how optical microscopes are used to describe and distinguish Earth materials.	https://docs.google.com/spreadsheets/d/1rllf6IXx0Lfw4Yb8bTpoI8vFFIP3Z2DUawSCnHWBmy/edit?usp=sharing		
GEOL& 101 CBE Introduction to Geology	Fully online Geology 101 course. Located in Canvas Commons - you have to be logged in to Canvas for the link to work. Originally designed as competency-based course and includes specific language related to CBE style instruction. Course is organized by competency.	https://lor.instructure.com/resources/4269357d0d644cd982e02058d367ea80		
NZ sedimentology outcrops and field work	A series of short 360 and 2D videos of a Pleistocene shoreface outcrops in northern NZ. These form part of a 3rd year undergraduate sedimentology course from the University of Auckland.	https://www.youtube.com/channel/UCiWmbsagfshxayFouWf1Ra/videos?view_as=subscriber		
Field Work - Landslides	AGU	https://www.youtube.com/watch?v=Noy809GRoCk		
Sketchfab	3D models of rock and mineral samples-high resolution quality photos and ability to zoom in, measure, rotate sample...	https://news.unl.edu/newsrooms/today/article/rock-mineral-3d-renderings-help-geology-101-adjust-to-seismic-shift/		
NASA	from NASA	https://space.jpl.nasa.gov/		
Virtual Earth Science Simulations	This Edinformatics.com site is a list of links to interactive earth and space scen	https://www.edinformatics.com/HTML5/html5-earth-systems-simulations.html		
National Geographic	A virtual solar system from National Geographic	https://www.nationalgeographic.com/science/space/our-solar-system/		
UCLA astronomy and physics	UCLA physics astronomy	http://demoweb.physics.ucla.edu/content/7-astronomy		anomalously
planetary motion	Realistic and sophisticated simulations covering chemistry, physics and planetary motion, from Brigham Young University	http://chemlab.byu.edu/virtual-earth-science/		

Geoscience Materials for Teaching Online				
Let's start by looking at the geoscience materials already posted online.				
Use this page to view ONLINE LABS				
Topic	Description	URL		
Virtual Activities	Observes the magnitude of an earthquake and to locate its epicenter	Virtual Earthquake - Earthquake - Google		
Virtual Dating	Interactive exercise about Geologic Time	Virtual Dating - Earthquake - Google		
Virtual Lab	Real processes	Virtual Lab - Earthquake - Google		
Virtual Landscapes	completing a series of geological mapping training exercises	Virtual Landscapes - Earthquake - Google		
3D rock and basal beds (PDF)	3D images of rocks and basins for intro level (read: Ashby, by Jeremy Peterson)	3D rock and basal beds (PDF) - Earthquake - Google		
Optical Microscopy/Photomicrography	Online Text Section	Optical Microscopy/Photomicrography - Earthquake - Google		
Photomicrography	Virtual photomicro microscopy?	Photomicrography - Earthquake - Google		
Optical Microscopy/Photomicrography	Virtual photomicro microscopy	Optical Microscopy/Photomicrography - Earthquake - Google		
Optical Microscopy/Photomicrography	Images of the sections	Optical Microscopy/Photomicrography - Earthquake - Google		
Geochemistry / Geoarchaeology	"Dinosaur" - Virtual field exercise	Geochemistry / Geoarchaeology - Earthquake - Google		
Set of virtual field resources	virtual field tips and outlines for selected geology topics	Set of virtual field resources - Earthquake - Google		
Photomicrography Lab	virtual microscopy resources	Photomicrography Lab - Earthquake - Google		
Technique - substitution virtual field trip	ACU's Virtual Field Trips	Technique - substitution virtual field trip - Earthquake - Google		
Mineralogy	physical properties & identification	Mineralogy - Earthquake - Google		
mineralogy	mineralogy rock ID image, etc	mineralogy - Earthquake - Google		
Virtual Field Trips in 300 degrees	Browser based virtual field trips to various localities	Virtual Field Trips in 300 degrees - Earthquake - Google		
AGU Virtual Field Trip	AGU virtual field trips for geology, anthropology, and biology	AGU Virtual Field Trip - Earthquake - Google		
Virtualology	3D mineral rock videos	Virtualology - Earthquake - Google		
Open Science	Open Science Data Lab Experiments	Open Science - Earthquake - Google		
VR field trip	Browser based virtual field trip of geology of Vermont, BC, Canada (or elsewhere)	VR field trip - Earthquake - Google		
Weathered processes	Weathered rock and mineralogy modeling	Weathered processes - Earthquake - Google		
Column of the Gables	Virtual Field Trip	Column of the Gables - Earthquake - Google		
Beaks and Cops	Geology with observations and calculations (GCOM)	Beaks and Cops - Earthquake - Google		
Geologic Maps	Geologic Earth (GEC)	Geologic Maps - Earthquake - Google		
Mineralogy, Geology, Sedimentology, etc.	exploring the many 3D forms of minerals, while activities, rocks, etc.	Mineralogy, Geology, Sedimentology, etc. - Earthquake - Google		
Geology	Virtual Geology field trip: Shetland 2 Subduction zone	Geology - Earthquake - Google		
Virtual Geology	Virtual Geology is a highly interactive and advanced education program for use in introductory geology and structural geology classes. Virtual Geology provides a fun and creative environment that provides a self taught learning process.	Virtual Geology - Earthquake - Google		
EGAS Science Education Initiative	A science education development community in UBC's Dept of Earth, Ocean and Atmospheric sciences	EGAS Science Education Initiative - Earthquake - Google		
VR Geoscience and geoscience	VR techniques for fun, modern and online geoscience education	VR Geoscience and geoscience - Earthquake - Google		
geoscience, physical geography, physical geology, weather & climate	3D video games and virtual lab resources	geoscience, physical geography, physical geology, weather & climate - Earthquake - Google		
Geoscience geology, engineering geology, volcanology	Magical online games, tablet virtual field trip, supporting geology field trip presentation	Geoscience geology, engineering geology, volcanology - Earthquake - Google		
Structural Geology	Free PDF lab manual, programs to interpret geologic maps, elevations, Matrix Craters, etc.	Structural Geology - Earthquake - Google		
3D 3D/4D	3D PDF of mineralogy, petrology, and other	3D 3D/4D - Earthquake - Google		
Control source morphodynamics	Online lab of basin morphodynamics & looking at basin profile data	Control source morphodynamics - Earthquake - Google		
Optimal and glacial processes	Thematic National Park - A story of the land and sea - a virtual field trip through Yosemite with stops showcasing the glacial formation of the rocks and glacial sculpting the same landscape. Bonus anthropogenic climate change stops as well.	Optimal and glacial processes - Earthquake - Google		
Geoscience	Earthquake custom kits for virtual activities in the country. It is a small family-owned business and requires a long lead time.	Geoscience - Earthquake - Google		
Virtual Photography (Virtual Microscopy)	Earthquake wave simulation	Virtual Photography (Virtual Microscopy) - Earthquake - Google		
Virtual 3D Models	3D models, close up images (separate database for descriptions)	Virtual 3D Models - Earthquake - Google		
Virtual Geology	3D and paper-based methods, and empower learning with intuitive 3D modelling, collaborative features for classrooms, and digital elements.	Virtual Geology - Earthquake - Google		

email: j.houghton@geog.ubc.ca if you would like the content!

Virtual 3D models, rocks, etc.

Many institutions and faculty are engaged in pandemic-proofed plans. If you are willing and able to guest-lecture for an 80-minute or a half-minute need for topic coverage, please complete the spreadsheet below. A faculty member in need may contact you if necessary. You can remove your name at any time. PhD candidates welcome.

*The purpose of the "number of requests" column is to track how many times someone has already provided - or agreed to providing - a guest lecture.

Send all the information to: geog100@uconn.edu or geog100@uconn.edu

Name	Primary sub-field	Areas of expertise/prepped lecture topics	How to contact (twitter, email, website – this is public so whatever you share publicly)	Time zone	Preferred online format (zoom, skype, etc.)	# of requests*
Claire C. McKinley	Geochemistry Paleogeography	1-act lecture for all of introduction to Geochemistry. I could put together something for Marine Sediment, Low Temperature Geochemistry, Biogeochem. lectures.	cmckinley@uconn.edu , mcinley.claire@gmail.com , @C_McKinley	US PST	Skype, Zoom, Google Hang Out!	
Rachel Headley	geomorphology and glacial geology	glacial erosion and flow, wetting geomorph, climate change, midwestern glacial geology	@RachelHeadley, rachelheadley@uconn.edu , headley@uconn.edu	US EST	Skype, Zoom, Google Hang Out!	
Seah Duffield	palaeontology (overseas)	sedimentology/paleogeography, historical geology, paleontology	@seahduffield (twitter)	US EST	Skype, Zoom, Google Hang Out!	
Emily Fairfax	ecology/biology	biology and the role they play in climate change (through trees)	@emylfairfax (twitter), emylfairfax@uconn.edu	US PST	any	
Chalen Formis	Resource Management	Resources for Conservation Services, Forest Management in Colorado, Community Based Natural Resource Management in the Americas	@ChalenFormis (twitter), chalen.formis@uconn.edu	US MST	Skype, Zoom, Google Hang Out!	
Julie I. Baska	glacial (climate change, Great Escalade)	Basic climate change, Research in Publication, Teaching College Science, Survey Design	@jibaska (twitter), jibaska@uconn.edu	US EST	Skype, Zoom, Google Hang Out!	
Amelia Davis	Natural resources, Geography, Environmental science	Basics of resilience, ecosystem services of geosystems, changing preferences, Low impact development	@ameliadavis (twitter), ameliadavis@uconn.edu	US EST	WebEx, google hangout	
Christopher Zarzar	Hydrogeomorphology	Climate change/ice, human impacts on precipitation, erosion, water processes, wetting processes	@czarzar (twitter), czarzar@uconn.edu , http://hydrogeology.uconn.edu/~czarzar	US EDT	WebEx, Zoom, Google Hangout	
Paul Herck	geomorphology	mass wasting, construction paleogeography, coastal geomorphology processes and environmental wetting/erosion channels in an urban marine geology course	@paulherck (twitter) OR phone: AT لندن DDT edu.	US EST	Skype, Zoom, Google Hang Out!	
Christopher Hein	cosedimentology geology & sedimentology	1 hour all of my sedimentology course material (online video demo when I leave a student), a few online geology with structural geology, tectonics, and an "oops" to do "ask me any thing" style lecture sessions	@christophhe (twitter), heinc@uconn.edu	US EDT	Zoom, Skype	
Li Gallati	Volcanology, Natural disasters, structural geology	1 hour all of my sedimentology course material (online video demo when I leave a student), a few online geology with structural geology, tectonics, and an "oops" to do "ask me any thing" style lecture sessions	@lpgallati (Twitter), lg04@uconn.edu	US EDT	Zoom, Skype, google hangout	1
Dicky Hanthitayak	Seismic Interpretation	Basic and Advanced Seismic Interpretation	@dhanthitayak, dickyhanthitayak@uconn.edu	CET	Zoom, Google Hang Out, Blackboard Collaborate	
Arijal Fernandez	Sedimentology, Stratigraphy, surface processes	3hrs. Sed strat, Earth surface Processes.	@arijalfernandez, arijalfernandez@uconn.edu	US EST	Skype, google hangouts, google meet	
Valentin Zuchuat	Sedimentology, resource stratigraphy	And systems, geology of the Colorado plateau	@valzue, valentin.zuchuat@uconn.edu , geo.usu.no	US Dets	Skype, zoom, Googlehangout	
Andrew Michelson	Paleontology, Environmental Science	Paleontology, Physical Geology, Cosmochemistry, Ecology, Conservation paleontology	andy.michelson@uconn.edu	US EST	Zoom, Google Hangout	
Garnell Boudrot	Biogeochemistry	Biogeochemistry, sedimentology, climate change in Earth history	garnell.boudrot@uconn.edu , @GBoudrot (twitter)	US MST	all of the above	

Geoscience Materials for Teaching Online

Let's share the burden! Many geoscientists have already created online materials.

Use this page to share VIDEOS

Topic	Description	Link
renewable energy	TED Ed video with questions, quiz can be modified as needed	https://ed.ted.com/lessons/can-100-renewable-energy-power-the-world-federico-rosei-and-renzo-rosei
climate change	TED Ed video with questions, quiz can be modified as needed	https://ed.ted.com/lessons/when-will-the-next-ice-age-happen-lorraine-lisiecki
anthropocene, geologic epoch	TED Ed video with questions, quiz can be modified as needed	https://ed.ted.com/lessons/how-long-will-human-impacts-last-david-biello
Global warming	Learn the basic science of climate change in 24 easy steps.	https://www.youtube.com/watch?v=fjjjyms1BX4
Geochronology	Mountain Range formation and age	https://www.youtube.com/watch?time_continue=2&v=p6FfOsYePMk&feature=emb_title
Earth Science resources	Creative Commons Geology videos by Kathryn Wiese (City College of San Francisco)	http://www.ccsf.edu/en/educational-programs/school-and-departments/school-of-science-and-mathematics/earth-sciences/Courses/EarthRocks.html
Nick Zentner Geology website	Lectures, videos, podcasts and other resources by Nick Zentner from Central WA University that faculty could use	http://www.nickzentner.com/
sediment transport	videos of sediment moving (either in flume experiments or in natural systems); link goes to another community-sourced GoogleSheet	https://docs.google.com/spreadsheets/d/1wtWdbS6rq4GZE5p7YYOCIsOdXI5Nj0UQ51QlcNpYg/

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Let's share the burden! Many geoscientists have already created online materials.			
Use this page to share OTHER ONLINE RESOURCES			
Topic	Description	Link	
Ecology/envi sci	Spreadsheet for ecology and environmental sciences	https://docs.google.com/spreadsheets/d/16K6bGTf-wGjxxi6aGi_v6vLQSpSogI1zq3iXLHWWeg/edit?usp=sharing	
Online database of teaching materials	SERC is a clearing house for science teaching materials	https://serc.carleton.edu/index.html	
Paleontology/climate change	Website with tons of introductory info pages, links to podcasts/books/teaching materials/etc; link goes to the Educational Resources page with a link to Online Teaching Resources	https://timescavengers.blog/educational-resources/	
ASU virtual geology field trips	Collection of browser-based virtual field trips around the world. Many have structured content with embedded questions and adaptive learning. Some are free-explore.	https://vft.asu.edu	
Resources for Earth sciences and Geography Instruction at CMU	Regularly updated web archive and listserv featuring exemplary and useful web resources for teaching geosciences.	http://web.archive.org/web/20140801131744/http://webs.cmich.edu/resgi/default.asp	
Smithsonian Field Trip	Visit the Smithsonian Virtually	https://naturalhistory2.si.edu/vr3/NMNH/?fbclid=IwAR1uB69-j8lx2uMHgSqz0tAyojwJo4TsmDEy-Bh2XpMZViuK0a_C4i5AD30	
Set of resources	Dr Stempien at Colorado created a list of resources!	https://docs.google.com/spreadsheets/d/1BnD7wjpOeu-aB1hbT3oxNNeZfR_3JC-8bx4WjQQ0_M/edit?usp=sharing	
Set of resources	online teaching resources, specifically resources that allow for classes to be taught mainly or completely online.	https://timescavengers.blog/educational-resources/online-teaching/	
Set of resources	Many individual's ideas of the resources they use	https://twitter.com/jason_loxton/status/1237746316345774081	
Specimens	Mostly biology	https://morphobank.org/index.php	
Specimens	3D scans	https://phenome10k.org/scans/	
Specimens	More fossils; 3D scans	http://digimorph.org/	
Specimens	Custom made; varies	http://xfrog.com/product/PR11.html	
Science Education Resource Center (SERC)	The Science Education Resource Center (SERC) and the National Association of Geoscience Teachers (NAGT) are pulling together an evolving set of resources	https://serc.carleton.edu/teachearth/teach_geo_online/index.html	
Phet Interactive Simulations	simulations + faculty resources: activities, questions to ask students	https://phet.colorado.edu/_m/	Adobe Flash Player, Java or others (depending on simulation)
Gizmos	online simulations with instructor guides, prompts for students	https://www.explorelarning.com/index.cfm?method=cResource.dspResourceCatalog	
EduWebLabs	online laboratory - guides for students beside simulator (labs, exercises, drills, tutorials)	http://eduweblabs.com/	adobe flash player
Geology Online Labs	curricula with virtual earthquake, dating and river a list of online courses/laboratories to teach geology	https://www.sciencecourseware.org/GLOL/	java or flash
Finding Lab Activities Online		https://serc.carleton.edu/NAGTWorkshops/online/lab_activities.html	
Jules Verne Voyager	manipulate maps of the world to view different features	http://jules.unavco.org/Voyager/Jr/Earth	
Geology Lab Study Materials	A handful of virtual labs with fillable worksheets/lab reports	http://profharwood.x10host.com/GEOL101/Study2.htm	
Earthquake Simulator	Manipulate length, depth and slip, then predict magnitude and experiment	http://ds.iris.edu/edu/10_5/	flash
EduMedia	simulations by subject	https://www.edumedia-sciences.com/en/node/105-global	
NOVA interactives	interactive modules for many subjects (and videos)	https://www.pbs.org/wgbh/nova/topic/evolution/?content_type=interactive&sorting=newer	
Set of resources	list of resources	https://eswnonline.org/online-teaching-resources/	
Sequence Stratigraphy	exercises, lectures, web content	sepmstrata.org	
EarthScope Teaching Resources	materials on earthquakes, volcanoes, seismology, geodesy, etc.	https://www.earthscope.org/education/teaching_resources.html	
Incorporated Research Institutions for Seis	Click on EDUCATION link: seismology lessons, lectures, videos, public displays	https://www.iris.edu/hq/#	
Geology games/activities	board games about resources, deposit types, etc	https://www.geolsoc.org.uk/Education-and-Careers/Resources/Activity-Sheets-And-Presentations	
Historical Geology Semester Project Online	Use Google drawings to collaborate on content for timescale hiking tour	https://serc.carleton.edu/teachearth/activities/214583.html	
RaspberryShake	Earthquake and seismology resources	https://edu.raspberrypi.org/classroom-curriculum/	
Life Science Teaching Resources	Collated list of life science resources	https://docs.google.com/spreadsheets/d/18f1Zud_jhCD25FZVwosbgtplQOV75cEoqF1LBoX-Smw/edit?usp=sharing	
Biology resources	List of resources through SABER	https://saberbio.wildapricot.org/Discussion-board/8824866	
Remote Sensing Online resources	Lectures, demonstrations, etc	https://www.kejoyce.com/education.html	
River Geomorphology	Dozens of videos + teaching guide. Tons of additional videos on main YouTube channel. Want a particular demo? Email Anna.LRRD@gmail.com	https://www.youtube.com/playlist?list=PLVa74th2F4P9p-mj-K	https://emriver.com/documents/2018/01/geomorphology-videos-teach
Virtual Microscopy	egru blog summary of resources	https://blogs.egu.eu/divisions/ts/2019/07/23/virtual-microscopy-for-geosciences/	
Sandstone Petrography short course	Kitty Milliken's sandstone petrography course is available through AAPG (behind paywall). If your U doesn't have access, email her for a copy. kitty@utexas.edu	https://store.aapg.org/detail.aspx?id=79	
North Sea Core	Core data and images from the North Sea, can be downloaded under CC-BY-4.0 licence. Additional subsurface repository, teaching and virtual geology resource pages	https://www.northseacore.co.uk	
Earth Exploration Toolbook	collection of online Earth system science activities	https://serc.carleton.edu/eet/index.html	
Earth Learning Idea	Extensive list of teaching resources and ideas, in multiple languages	https://www.earthlearningidea.com	
The Earth Science Education Unit	Workshops, resources and teaching ideas	https://www.earthscienceeducation.com/index.html	
GeoBus	Geoscience resources	https://geobus.st-andrews.ac.uk	
Geological Society of London	Collection of free geology resources	https://www.geolsoc.org.uk/heresources	
Teach Earth Science	Range of earth science activities for 8-14 yr old school students	https://teachearthscience.org	
Open University	15 min geology activity	https://www.open.edu/openlearn/science-maths-technology/science/geology/geology-toolkit	
Reviews of Science Ed virtual labs, simulations, games		https://flyrussell.com/reviews	
Burgess Shale - Virtual Sea Odyssey	Great info and animations on life preserved in Burgess Shale. Designed by the Royal Ontario Museum (Researches of Burgess Shale)	https://burgess-shale.rom.on.ca/en/index.php	
3D paper models - volcanoes, faults, oil traps, caves, mining, and more		https://geoetc.com/teacher-resources/	There are more activities in the member section - costs you 99c a month
Geologic Image Analysis: Grad and upper division level material		https://sites.google.com/aggiemail.usu.edu/geo-image-janecke/home	
Source of Geoscience datasets	resources. Compiled by Dr. Susanne U. Janecke, Utah Sta	https://usu.instructure.com/courses/494375/pages/sources-of-geologic-and-geophysical-digital-data-table-form	

Timestamp	1. What is age of Narmada basin?	2. Give stratigraphic position of Sylhet Limestone	3.Name is the Position of Eparchaean unconformity?	4. Which era is known as age of Fish?	5. What is the age of Deccan Trap?	Name and Roll no	Name-	Name-
7/30/2021 10:45:38	Permian	Assam	Contact Between Archean & Mesozoic	Jurassic	Cretaceous			
7/30/2021 10:49:05	Permian	Assam	Contact Between Archean & Mesozoic	Jurassic	Cretaceous			
7/31/2021 7:23:26	Permian	Assam	Contact Between Precambrian & Archean	Triassic	Cretaceous			
7/31/2021 11:02:42	Permian	Assam	Contact Between Precambrian & Archean	Jurassic	Cretaceous	Name-souvik kuliri roll-128141 no-1916162		
7/31/2021 12:04:11	Permian	Assam	Contact Between Precambrian & Archean	Cretaceous	Cretaceous	Mrimoy Mahato ,Roll-128141 no-1916178		
8/1/2021 2:14:08	Cretaceous	Assam	Contact Between Precambrian & Archean	Triassic	Cretaceous	Name- subhajit kundu Roll no-15		
8/1/2021 8:28:22	Permian	Assam	Contact Between Precambrian & Archean	Triassic	Cretaceous	Rima Das Roll - 23		
8/1/2021 8:47:15	Cretaceous	Assam	Contact Between Precambrian & Archean	Triassic	Cretaceous	Name- subhajit kundu Roll no- 15		

Consensus Materials for Teaching Online

Get ideas for using these materials with online students.

Use this page to **ASK FOR HELP!**

Consensus is a **collaborative** tool for **group** **working** **on** **resources**.

[How to use Consensus](#)

LINK

LINK

LINK

LINK

VIDEO RESOURCES

DESCRIPTION
DISCOVER SCIENCE COLLEGE, San Jose, California, CA
Consider the importance of Science, Technology, and Innovation in
Predicting Climate Change

HELPFUL and your work in these activities
[Climate Change and the Environment](#)
[Climate Change and the Environment](#)
These are the best of the best

[Climate Change and the Environment](#)

[Climate Change and the Environment](#)

[Climate Change and the Environment](#)

High-quality images of our planet

Shoulder to shoulder in a digital collage artwork

Consider the Oregon State Marine Design Repository. They have thousands of items already tagged. They may be able to join using the photos and a link tagging sheet.

[Oregon State Marine Design Repository](#)

[Oregon State Marine Design Repository](#)

[Oregon State Marine Design Repository](#)

History and Marine Exploration

and a long history of marine exploration on sailing vessels & submarines. An 1800s sailing environmentalist.

Marine sustainability

What to know from the coast of the deep sea and deep-sea hydrothermal vents and how to be sustainable in the deep-sea from the bottom of the deep-sea to the top of the deep-sea. A full description of the deep-sea and how to be sustainable in the deep-sea.

This resource is designed for individual students, but has adapted for upper-level students. [Link to the resource](#)

Physical and mechanical weather virtual simulation

High school level simulation that shows the process of chemical or mechanical weather that can be simulated online. A virtual up-scaled simulation, but also including a calculation section for good at the point.