Online textbooks resource - http://www.ck12.org/teacher/

Topics	Resources
1st Nine Weeks Review Life Science	YouTube Links • Asexual and Sexual Reproduction: https://www.youtube.com/watch?v=fcGDUcGjcyk • Intro to Heredity https://www.youtube.com/watch?v=8m6hHRlKwxY • Mitosis https://www.youtube.com/watch?v=f-ldPgEfAHI&t=2s • Meiosis https://www.youtube.com/watch?v=VzDMG7ke69g&t=8s • Natural Selection: https://www.youtube.com/watch?v=7VM9YxmULuo&t=146s • Speciation: https://www.youtube.com/watch?v=udZUaNKXbJA&t=228s • Homologous and Analogous Structures https://www.youtube.com/watch?v=2N3OPRodRvk Virtual Activities • Students can use this site to practice building models of DNA with complementary base pairs https://learn.genetics.utah.edu/content/basics/builddna/ • Students use descriptions to find the right mate for each of the animal contestants https://mpb.pbslearningmedia.org/resource/tdc02.sci.life.evo.matinggame/the-mating-game/ • Students become the "pilots" for engineering organisms to become more resistant to predation, herbicides, and pesticides. http://agbiosafety.unl.edu/education/whowants.htm- • Students use a self-paced interactive activity to review the cell cycle, mitosis, cell growth and repair https://biomanbio.com/HTML5GamesandLabs/Genegames/mitosismoverpage.html • Students use this self-paced interactive activity to review meiosis, fertilization and genetic recombination https://biomanbio.com/HTML5GamesandLabs/Genegames/snurflemeiosishtml5page.html • At the bottom of this link, students can find a variety of games which look like video games, but include great review questions covering natural selection, adaptations, Darwin, speciation and evolution https://www.legendsoflearning.com/learning-objectives/natural-selection/
2nd Nine Weeks Review Earth Science	Links • The Rock Cycle https://www.youtube.com/watch?v=EGK1KkLjdQY, https://www.youtube.com/watch?v=G7xFfezsJ1s • Pangea https://www.youtube.com/watch?v=tvFguvP2gXg, • Relative Dating of Rock Layers https://www.youtube.com/watch?v=fYSeM63Fv0s • Index Fossils https://www.youtube.com/watch?v=PN3xpDs_Wz0 • Mass Extinctions https://www.youtube.com/watch?v=FlUes_NPa6M • Plate Tectonics https://www.youtube.com/watch?v=RA2-Vc4PIOY • Convection Currents https://www.youtube.com/watch?v=0mUU69ParFM

	• Plate Boundaries https://www.youtube.com/watch?v=JJF7RAKzxRw • Constructive and Destructive Forces https://www.youtube.com/watch?v=FN6QX43QB4g&list=PLMo-78CLZSW3yrJRhGXM1njed2RJxtsi6 Activities • Students will review the types of rocks, how rocks change, and the rock cycle in this self-paced interactive https://www.learner.org/series/interactive-rock-cycle/ • Students will review earth's structure, plate tectonics, and plate boundaries in this web activity https://www.learner.org/wp-content/interactive/dynamicearth/index.html • Students will use index fossils to date rock layers from oldest to youngest. Three different difficulty levels are available https://www.amnh.org/ology/features/layersoftime/game.php • This interactive allows students to view the 5 major mass extinction events along the world's time scale https://www.biointeractive.org/classroom-resources/making-mass-extinctions-0 • Reviews the process of constructive and destructive forces as both fast and slow processes http://sciencenetlinks.com/interactives/forces.html
3rd Nine Weeks Review Earth Science/ Physical Science	Links • Soil Formation https://www.youtube.com/watch?v=NGuKufvQw8c • Soil Layers https://www.youtube.com/watch?v=bgqea0E2eAY • Porosity and Permeability https://www.youtube.com/watch?v=8mfBomrw0rs • Water Cycle https://www.youtube.com/watch?v=al-do-HGuIk • Renewable/Non-renewable resources https://www.youtube.com/watch?v=KdR_6Taga5A • Electromagnetic Spectrum https://www.youtube.com/watch?v=KWQitt-kDFE • Parts of a Wave https://www.youtube.com/watch?v=RVyHkV3wIyk • Wave Behaviors https://www.youtube.com/watch?v=BL2MtP7j-xk • How do we see color? https://www.youtube.com/watch?v=pvC9MQvqHMQ&t=113s Activities • This website has a variety of links to games covering various soil concepts, including components of soil, soil horizons, and organisms present in soil http://forces.si.edu/soils/04_00_00.html • This website has a variety of links to games which test students' knowledge on the components of the water cycle https://www.legendsoflearning.com/learning-objectives/the-water-cycle/ • This online lab allows students to test the porosity and permeability of various soil types (directions found on the left side of the screen) http://www.glencoe.com/sites/common_assets/science/virtual_labs/CT02/CT02.html • This game allows students to determine the best forms of alternate energy for various regions of the world https://wonderville.org/asset/save-the-world • This activity allows students to sort natural resources into various categories including renewable energy, non-renewable energy, crude energy, agricultural products, etc. https://www.brainpop.com/games/sortifynaturalresources/

	• This lab allows students to explore the various wavelengths and properties of the electromagnetic spectrum http://www.glencoe.com/sites/common_assets/science/virtual_labs/CT05/CT05.html • This lab allows students to explore the properties of waves http://www.glencoe.com/sites/common_assets/science/virtual_labs/E05/E05.html • Students can use the following website to explore what people see when their color vision is impaired as well as test their own abilities to distinguish between colors https://enchroma.com/pages/test

Additional Resources

The following website contains a mix of science resources from throughout the year.

Go to https://learn.concord.org
Click “Register” at the top right
Select “I am a Student”
Fill in the information and click “next”
Fill in the information. The class word is “rams20”

https://quizizz.com
https://kahoot.com
www.khanacademy.com