



# High School



## Science At-Home Resources



Online or screen time resources




Offline/no screen time resources

SCIENCE RESOURCES (SCREEN TIME OR WITH TECHNOLOGY)		
Name of Site and Link	Description/Directions/Explanation	Course
<b>Phet simulations</b> <a href="https://phet.colorado.edu/en/simulations/category/new">https://phet.colorado.edu/en/simulations/category/new</a>	<b>PhET</b> provides fun, free, interactive, research-based science <b>simulations</b> .	All HS Sciences
<b>Biology with Amoeba Sisters</b> <a href="https://www.youtube.com/user/AmoebaSisters">https://www.youtube.com/user/AmoebaSisters</a>	What are the " <b>Amoeba Sisters</b> " videos? A series of short, FREE science videos that demystify science with humor, relevance, and a lot of comics to help students connect to the content. Student activity sheets available.	Biology
<b>SciShow Space videos</b> <a href="https://www.youtube.com/channel/UCrMePiHCWG4Vwqv3t7W9EFg">https://www.youtube.com/channel/UCrMePiHCWG4Vwqv3t7W9EFg</a>	The universe is awe-inspiring! From groundbreaking discoveries in the news to the big questions about what makes life possible, SciShow Space brings you answers to your burning questions in the form of short video clips. Student activity sheets available.	Earth and Space Science, Astronomy
<b>Bozeman Science</b>	Video essentials for AP Biology, AP Chemistry, AP Environmental Science, and	AP Sciences

<a href="http://www.bozemanscience.com/">http://www.bozemanscience.com/</a>	AP Physics 1&2 are aligned to the AP curriculum.	
<b>Howard Hughes Medical Institute –Biointeractive</b> <a href="https://www.biointeractive.org/">https://www.biointeractive.org/</a>	Real science, real stories, and real data to engage students in exploring the living world.	Biology and AP Biology
<b>Biology Corner</b> <a href="https://www.biologycorner.com/">https://www.biologycorner.com/</a>	Biology lesson plans, worksheets, tutorials and resources for teachers and students.	Biology
<b>Crash Course resources</b> <a href="https://thecrashcourse.com/">https://thecrashcourse.com/</a>	Crash Course is a way to educate students, their classmates/friends, and family members on You Tube! From course like Anatomy & Physiology it's got you covered with an awesome variety of AP high school curriculum topics.	All HS Sciences
<b>PBS Nova Labs</b> <a href="https://www.pbs.org/wgbh/nova/labs/">https://www.pbs.org/wgbh/nova/labs/</a>	PBS affiliated website. Various lab simulations and videos on content such as climate change, evolution, cybersecurity, space science, renewable energy, and the solar system.	All HS Sciences
<b>AACT - High School resources</b> <a href="https://teachchemistry.org/classroom-resources/topics?grade_level=high-school">https://teachchemistry.org/classroom-resources/topics?grade_level=high-school</a>	American Association of Chemistry Teachers – Various lessons with teacher guides, videos, and student activity sheets.	Chemistry
<b>Annenberg Science</b> <a href="https://www.learner.org/subject/science/">https://www.learner.org/subject/science/</a>	Multimedia classroom resources for teaching about a wide range of science subjects.	All HS Sciences
<b>Khan Academy</b> <a href="https://www.khanacademy.org/">https://www.khanacademy.org/</a>	Practice exercises, instructional videos, and a personalized learning dashboard where	All HS Sciences

	students can learn and study at their own pace.	
<b>The Physics Classroom</b> <a href="https://www.physicsclassroom.com/">https://www.physicsclassroom.com/</a>	Tutorials, interactives, concept builders, and Minds on Physics App	Physics
<b>Exploring Earth</b> <a href="https://www.classzone.com/books/earth_science/terc/navigation/investigation.cfm">https://www.classzone.com/books/earth_science/terc/navigation/investigation.cfm</a>	Exploring Earth online textbook - McDougal Littell; interactive materials and simulations	Earth and Space Science, Astronomy
<b>NOAA Resources Collection</b> <a href="https://www.noaa.gov/education/resource-collections">https://www.noaa.gov/education/resource-collections</a>	This portal is designed to help you access these resources from one location. Materials are organized by themes aligned with common teaching topics. Linked resources are organized into collections that provide the user with a toolkit of materials and activities suitable for integration into a variety of educational settings. With the exception of Elementary science, collections are not grade specific but resources are labeled where applicable.	All HS Science
<b>International Space Station on UStream</b> <a href="https://www.nasa.gov/multimedia/nasatv/iss_ustream.html">https://www.nasa.gov/multimedia/nasatv/iss_ustream.html</a>	High definition views of Earth from the space station. Live video from the International Space Station includes internal views when the crew is on-duty and Earth views at other times. The video is accompanied by audio of conversations between the crew and Mission Control. This video is only available when the space station is in contact with the ground.	Physics, Earth and Space Science, Astronomy

SCIENCE RESOURCES/ACTIVITIES (NO SCREEN TIME OR TECHNOLOGY) 	
Description	Course
<p><b>8 Simple Science Experiments Students Can do at Home-</b>  <a href="https://www.businessinsider.com/8-awesomely-simple-science-experiments-you-can-do-at-home-2016-7">https://www.businessinsider.com/8-awesomely-simple-science-experiments-you-can-do-at-home-2016-7</a></p> <p>Science hands-on investigations that students can conduct with household items. The experiments have directions and videos to assist with conducting the investigation. <b>Practice safety and use with caution!</b></p>	All HS Sciences
<p><b>Why Not Try Fun Science Experiment Right Now? Science Bob</b>  <a href="https://sciencebob.com/category/experiments/">https://sciencebob.com/category/experiments/</a></p> <p>A compilation of science experiments that can be done at home. Parents should preview directions and work with students as they attempt the experiments.</p>	All HS Sciences
<p><b>My Environmental Study</b></p> <p>Identify different types of birds, leaves, trees, flowers, living organisms, and non-living components found outside of your home. Collect samples to analyze leaves and plants, write about how the features of these leaves and plants are helpful to their survival.</p>	All HS Sciences
<p><b>Traffic Patterns</b></p> <p>Identify trends in the traffic patterns on your street. Design an experiment to collect data about the peak and off-peak traffic times. Be sure to create a data table and analyze your findings.</p>	All HS Sciences
<p><b>Science and Society</b></p> <p>Use any media that you have available such as books, magazines, newspapers, etc. to find examples of society interacting with science. Consider the impact of what you find and apply it to your daily life. Write about how your daily life would be different without science.</p>	All HS Sciences

<p><b>Kitchen Conversions</b></p> <p>Consider a recipe that is cooked in your kitchen regularly. How might you be able to create this recipe without any measuring tools if they were not available? Could you convert this recipe so that it could be shared with someone in a country where only metric units such as grams and liters are used? Why is it important to have measuring tools and a universal system of measurement when thinking globally?</p>	<p>All HS Sciences</p>
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