

Collections of Astronomy Activities on the Web

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Arguably the most comprehensive collection of K-12 astronomy activities is the Astronomical Society of the Pacific's *The Universe at Your Fingertips 2.0*, which includes 133 selected activities from programs around the country (and considerable background material for anyone wanting to work at this level). You can see the list and order the DVD-ROM at:

<https://myasp.astrosociety.org/products/DV122/theuniverseatyourfingertips20dvdrom>

But there are other collections on the Web with activities that are useful in a K-12 classroom or informal education setting (such as a museum or planetarium). This is not a comprehensive list, but just a sampling to get you started:

1. American Association of Variable Star Observers Activities: <https://www.aavso.org/education>
2. Andrew Fraknoi's Activities: <http://www.fraknoi.com/articles-books/classroom-activities-on-astronomy/>
3. Astronomical Society of the Pacific Hands-on Activities On the Web (from a range of their projects): <http://astrosocietyorg/programs-resources/education-activities/>
4. Astronomy Labs for college Astro 101 classes that are free on the Web (some can be adapted for high school level): <https://www.oercommons.org/authoring/18513-a-compilation-of-free-laboratory-activities-for-as>
5. Center for Astrophysics Educational Curriculum Materials (including Project STAR, Project ARIES, etc): <https://www.cfa.harvard.edu/education/curric.html>
6. CERES Project (U. of Montana): <http://btc.montana.edu/ceres/html/EdActivities.html>

7. Dennis Schatz' Activities: <http://dennisschatz.org/activities.html>
8. Exploratorium Hands-on Activities: <https://www.exploratorium.edu/explore/activities>
9. Exploring the Planets in the Classroom (U. of Hawaii Spacegrant activities):
http://www.spacegrant.hawaii.edu/class_acts/
10. Hands-on Optics activities: <http://spie.org/education/education-outreach-resources/hands-on-optics?SSO=1>
11. Kepler Mission Educators Activities: <https://www.nasa.gov/kepler/education/formal>
12. Kinesthetic Astronomy (exploring astronomical concepts through movement):
<http://www.spacescience.org/eduresources/kinesthetic.php>
13. Lunar & Planetary Institute Activities: <https://www.lpi.usra.edu/education/resources/>
14. Mars Exploration Activities: <https://mars.nasa.gov/participate/marsforeducators/>
15. McDonald Observatory Activities: <http://mcdonaldobservatory.org/teachers/classroom>
16. NASA List of Educational Publications (including Educator Guides with activities):
https://www.nasa.gov/audience/foreducators/topnav/materials/A-Z_Pubs.html#I
17. National Optical Astronomy Observatories Educational Activities:
<https://www.noao.edu/education/teachers.php>
18. Night Sky Network Demos and Activities (designed for amateur astronomers to do with school and public audiences): <https://nightsky.jpl.nasa.gov/download-list.cfm>
19. Paper Plate Education (activities by Chuck Bueter):
<https://analyzer.depaul.edu/paperplate/activities.htm>
20. Planetarium Activities for Student Success (Lawrence Hall of Science):
<http://www.planetarium-activities.org/activities/categories>
21. Practical Uses of Math and Science: <https://pumas.gsfc.nasa.gov/examples/index.php>
22. Science Education Gateway (Space Sciences Lab, U. of California, Berkeley):
<http://cse.ssl.berkeley.edu/SegwayEd/index.html>
23. *Seeing in the Dark* (Tim Ferris' PBS Special) Activities for Teachers:
<http://www.pbs.org/seeinginthedark/for-teachers/>
24. Space Science Institute STARNet Activities Clearinghouse (designed for librarians to use in public programs): <http://clearinghouse.starnetlibraries.org/>
25. Space Telescope Science Institute *Amazing Space*: <http://amazingspace.org/eds/>
26. Stanford Solar Center Activities about the Sun: <http://solar-center.stanford.edu/teachers/>
27. Stardust Mission Comet Activities: <https://stardust.jpl.nasa.gov/classroom/guides.html>
28. Sun-Earth Day Activities (U. of California, Berkeley Space Sciences Lab):
<https://sunearthday.nasa.gov/2008/getinvolved/maketake.php>
29. Zooniverse (citizen science projects): <https://www.zooniverse.org/get-involved/education>