

# School-Based Extracurricular Astronomy Appendix

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## SGHS Astronomy Club

<http://www.sghs.nsw.edu.au/Co-curricular/Astronomy/index.html> Our internet page

<http://www.jeffstanger.net/Science Teaching/sghs egg drop challenge.pdf> SGHS Egg Drop Challenge

[http://www.jeffstanger.net/Science Teaching/sghs\\_rocket\\_workshop.pdf](http://www.jeffstanger.net/Science Teaching/sghs_rocket_workshop.pdf) SGHS PET Bottle Rocket Challenge

## Activities and Resources

[http://www.astronomy.com/asy/objects/pdf/welcome\\_astronomy.pdf](http://www.astronomy.com/asy/objects/pdf/welcome_astronomy.pdf) An introduction to Astronomy

<http://www.jeffstanger.net/iya/iya4teachers.html> IYA 2009 information for Australian Teachers

<http://www.jeffstanger.net/iya/iyadgs.html> Index to a huge collection of astronomy education resources for IYA 2009

<http://afterschoolastronomy.org/index.html> Resources and networking for school astronomy clubs

<http://spaceplace.jpl.nasa.gov/partners/> A newsletter for astronomy clubs

[http://www.astrosociety.org/education/astro/project\\_astro.html](http://www.astrosociety.org/education/astro/project_astro.html) ASP's Project ASTRO and links to many resources

<http://nightsky.jpl.nasa.gov/> A support network for amateur astronomy clubs to assist them in public outreach

<http://nightsky.jpl.nasa.gov/download-search.cfm> Search the night sky network resources

<http://universe.nasa.gov/au/> NASA's Afterschool Universe resources

<http://www.astrosociety.org/education/publications/tnl/tnl.html> A free newsletter for astronomy educators

<http://www.cfa.harvard.edu/seuforum/exhibit/resources/CQEdGuide.pdf> Large booklet of astronomy activities

<http://www.astronomy.mq.edu.au/deepspace/> Faulkes telescope ASISTM project legacy site

<http://www.astronomy.mq.edu.au/space2grow/> Current Australian project using the Faulkes telescopes in schools

[http://www.asistm.edu.au/asistm/asistm\\_case\\_study\\_6,23626.html](http://www.asistm.edu.au/asistm/asistm_case_study_6,23626.html) More information on the Faulkes Telescope Project

<http://www.jeffstanger.net/Science%20Teaching/faulkestelelescopeproject.html> SGHS Astronomy Club Faulkes telescope

[www.hscphysics.edu.au](http://www.hscphysics.edu.au) Resources for the HSC physics syllabus including several on astronomy topics

[http://www.perimeterinstitute.ca/Perimeter\\_Explorations/](http://www.perimeterinstitute.ca/Perimeter_Explorations/) Dark Matter educational package

<http://www.mso.anu.edu.au/~charley/papers/LineweaverDavisSciAm.pdf> Misconceptions about the Big Bang article

<http://outreach.atnf.csiro.au/education/> A multitude of resources for astronomy education

<http://www.museudaciencia.pt/index.php?iAction=Actividades&iArea=5&iId=18> Create your own constellations

<http://www.unawe.org/joomla/> Astronomy activities for young children

## Observing nights

<http://www.jeffstanger.net/Astronomy/observing.html> intro to what can you see in the night sky

<http://www.skyandtelescope.com/letsgo> Let's go stargazing!

<http://www.jsc.nasa.gov/sightings/> Observing the international space station and having a star party

<http://outreach.atnf.csiro.au/education/teachers/viewing/> Tips for holding a viewing night

<http://www.skymaps.com/> Monthly skymaps

<http://www.seds.org/messier/indexes.html> Information on messier objects you may observe

## Astrophotography

<http://www.jeffstanger.net/Astrophotography/astrophotography.html> How to articles

**Discussions** - Astronomy news services can stimulate discussions on certain topics or give you ideas.

<http://www.universetoday.com/>

<http://www.space.com/>

<http://www.abc.net.au/science/news/space/>

<http://www.nasa.gov/news/highlights/index.html>

<http://www.skyandtelescope.com>

<http://spaceflightnow.com/>

<http://antwarp.gsfc.nasa.gov/apod/astropix.html>

## Quizzes

<http://library.thinkquest.org/J001665/quiz.html> An example of quiz questions online

**Podcasts and Vodcasts** – These news services are audio or video and can be used as resources

<http://www.abc.net.au/science//starstuff/> The ABC's StarStuff

[http://coolcosmos.ipac.caltech.edu/cosmic\\_classroom/ask\\_astronomer/video/](http://coolcosmos.ipac.caltech.edu/cosmic_classroom/ask_astronomer/video/) Ask an Astronomer videos

<http://www.esa.int/SPECIALS/ESApod/index.html> ESApod

<http://www.slackerastronomy.org/wordpress/index.php> Slacker Astronomy

<http://www.astronomycast.com/> Astronomy Cast

**Podcasting** - You can get your students to produce an audio show for the ipod.

<http://www.learnoutloud.com/Content/Topic-Pages/Introduction-To-Podcasting/17> A good place to start

<http://www.podcasting-tools.com/what-is-podcasting.htm> more introductory information

<http://www.firstgov.gov/webcontent/technology/podcasting.shtml> More information

<http://www.apple.com/itunes/podcasts/> The most popular podcast management software

**Software** – There is a lot of excellent free software available to help you teach astronomy and here are some examples.

<http://www.shatters.net/celestia/> Celestia is a 3D solar system simulation you can fly around and observe the universe.

<http://www.stellarium.org/> Stellarium is a virtual planetarium. You can observe the sky from Earth and how it changes.

<http://www.worldwidetelescope.org/> WorldWide Telescope allows you to easily view images from the worlds observatories and much much more.

<http://www.google.com/sky/> and <http://earth.google.com/sky/skyedu.html> Google Sky is an extension of Google Earth

<http://earth.google.com/> and is wonderful for showing people images anywhere in the sky.

<http://www.thinkastronomy.com/M13/index.html> shows 3D distribution of astronomical objects in our galaxy.

## Competitions

<http://ausgo.aao.gov.au/contest/> A contest for 2009 to win observing time on the Gemini telescope.

<http://youdecide.hubblesite.org/> Vote on what the Hubble telescope will look at next.

## Documentaries and presentations

<http://www.400years.org/> 400 years of the telescope.

<http://www.eyesontheskies.org/index.php> The official documentary of the international year of astronomy.

<http://www.astronomy2009.org/resources/presentations/> PowerPoints for the IYA 2009.

## Online Telescopes

<http://black-hole-net.mit.csu.edu.au/telescope/main.asp> CSU Remote Telescopes in Bathurst.

<http://www.tzecmaun.org/> A growing network of online telescopes in New Mexico, USA and South Australia.