

Ideas for School Based Activities for the International Year of Astronomy 2009 Links

<http://www.jeffstanger.net/Science Teaching/Ideas for School Based Activities for the International Year of Astronomy 2009 links.pdf>

See information on Australian activities for IYA 2009 at www.astronomy2009.org.au

<http://www.jeffstanger.net/iya/iya.html> International Year of Astronomy (IYA) information for Australians

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

<http://www.jeffstanger.net/iya/iyadgs.html> IYA educational resources (IYA Discovery Guides)

Activities and Resources

<http://www.astronomy.com/asy/default.aspx?c=wa&id=183> Welcome to astronomy (introductory information)

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

http://spaceplace.jpl.nasa.gov/astro_clubs/ A newsletter for astronomy clubs

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

http://www.perimeterinstitute.ca/Perimeter_Explorations/ Dark Matter educational package

<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> Astronomy activities

<http://www.seeds2learn.com/rocketSoftware.html> Water rocket software

<http://mysci.net/pages/physics1/Labs/The%20Great%20Egg%20Drop%20Debacle.doc> Mars lander (egg drop) challenge

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

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

http://www.asistm.edu.au/asistm/asistm_case_study_6,23626.html More information on the Faulkes Telescope Project

www.hscphysics.edu.au Resources for the HSC physics syllabus including several on astronomy topics

<http://www.sciam.com/article.cfm?id=misconceptions-about-the-2005-03> Misconceptions about the Big Bang article

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

<http://nightsky.jpl.nasa.gov/download-search.cfm> Practical activities supporting astronomical outreach

<http://www.astrosociety.org/iya/guides.html> A series of monthly activities for IYA 2009

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

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

<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 sky

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

<http://www.aanc-astronomy.org/articles/host-a-starparty.html> How to hold a star party

<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://www.skymaps.com/> Monthly sky maps

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

Astrophotography

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

<http://www.jeffstanger.net/Astrophotography/simpledigitalastrophotography.html> Simple digital astrophotography

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://skyandtelescope.com/Default.asp>

<http://spaceflightnow.com/>

<http://cfa-www.harvard.edu/hco/astro/edlinks/news.html>

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

Quizzes

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

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

<http://www.abc.net.au/newsradio/programs/STARSTUFF.htm> ABC News Radio's StarStuff

<http://www.learnoutloud.com/Podcast-Directory/Science/Astronomy/Ask-an-Astronomer-Video-Podcast/19736>

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://podcasts.yahoo.com/publish> A good place to start for 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/IYAcontest/> 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 Western Australia.

Sydney Girls High School Astronomy Club

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

<http://www.jeffstanger.net/Science%20Teaching/Running%20a%20School%20Astronomy%20Club%20Jeff%20Stanger%202007.pdf> An article on running a school astronomy club with ideas for activities, tips and other information.

<http://www.jeffstanger.net/Science%20Teaching/workshopresources.html> Other related resources.

Cheers,

Jeff Stanger

www.jeffstanger.net