

Web Resources for Protecting Our Home

Center for Lunar Science and Exploration

<http://www.lpi.usra.edu/exploration/index.shtml>

This Lunar and Planetary Institute website contains background science information, images, info on other traveling exhibits, high school research projects and more.

NASA Goddard Scientific Visualization Studio – Asteroids

<http://svs.gsfc.nasa.gov/search/Keyword/Asteroid.html>

The Scientific Visualization Studio wants you to learn about NASA programs through visualization! Learn about asteroid science and exploration from their collection of asteroid animations.

“Killer Asteroids” Online Game

<http://www.killerasteroids.org/interactives/impact/index.php>

This online interactive uses Google Earth, along with an impact effects calculator, to show you the damage that would be caused by different sized asteroids and comets.

Meteors & Meteorites: An Overview

<http://solarsystem.nasa.gov/planets/profile.cfm?Object=Meteors>

Is it a meteoroid, meteor, or meteorite? Learn the difference between these three here and more.

Terrestrial Impact Craters and Their Environmental Effects

http://www.lpi.usra.edu/science/kring/epo_web/impact_cratering/intro/index.html

This website by Dr. David Kring explores the environmental effects of impact cratering and the biological consequences of those effects. For public adult audiences.

The Dawn Mission to Asteroids Vesta and Ceres (NASA)

<http://dawn.jpl.nasa.gov/>

The OSIRIS-Rex Mission to Asteroid Bennu (NASA)

<http://dawn.jpl.nasa.gov/>

The Hayabusa2 Mission to Asteroid “1999 JU3” (JAXA – Japanese Space Agency)

<http://global.jaxa.jp/projects/sat/hayabusa2/>

Get Involved!

Asteroid Mappers

http://cosmoquest.org/?application=vesta_mappers

Be a citizen scientist and help Dawn mission scientists study asteroids! Asteroid Mappers is a collaboration between the Dawn mission science and education/public outreach teams and CosmoQuest that engages the public in the excitement of asteroid science and exploration.

Target Asteroids!

<http://www.asteroidmission.org/get-involved/target-asteroids/>

Target Asteroids! Is an opportunity for amateur astronomers to participate in a long-term citizen science project that will contribute to basic scientific understanding of near-Earth objects (NEOs). The Target Asteroids! Program is part of NASA’s OSIRIS-REx asteroid sample return mission.

Media to Further Explore Protecting Our Home

BOOKS

Comets, Meteors, and Asteroids: Voyagers of the Solar System

Ellen Lawrence, Ruby Tuesday Books, 2014, ISBN 978-1909673229

Children ages 4–8 are introduced to space rocks, including asteroids, meteorites, and "space snowballs."

Exploring Dangers in Space: Asteroids, Space Junk, and More

Buffy Silverman, Lerner Publishing Group, Inc., 2012, ISBN: 9780761354468

Readers age 7 and up learn how scientists watch out for large collisions and what they might do if Earth is in danger.

Seven Wonders of Asteroids, Comets, and Meteors

Ron Miller, Twenty-First Century Books, 2011, ISBN: 9780761354512

For readers age 10 and up, explore seven wonders of asteroids, comets, and meteors, including the impact that space debris can have on planets and moons.

What's So Mysterious About Meteorites?

O. Richard Norton & Dorothy Sigler Norton, Mountain Press Publishing Company, 2012, ISBN: 9780878425914

Learn where meteorites come from, what they are made of, how they are related to impact craters, and how to identify them on the ground. For ages 13 and up.

Near-Earth Objects: Finding Them Before They Find Us

Donald K. Yeomans, Princeton University Press, 2013, ISBN: 9780691149295

For young adults and adults, go behind the scenes of today's efforts to find, track, and study near-Earth objects.

Asteroids and Dwarf Planets and How to Observe Them

Roger Dymock, Springer, 2010, ISBN: 9781441964380

A great resource for amateur astronomers, the book describes the dwarf planets and asteroids themselves, their origins, orbits, and composition, and how amateur astronomers can play a part in their detection, tracking, and imaging.

VIDEO

Cosmos: A Spacetime Odyssey: The World Set Free

20th Century Fox, 2014, ASIN: B00IWULSTC

Astrophysicist Neil deGrasse Tyson hosts an exploration of space science topics in this television series. Two of these episodes cover asteroids, craters, etc. Appropriate for ages 8 and up (and younger children with adult guidance).