

NASA Education Resources

What else can I use in my classroom?

Where Do I Start?

The NASA Portal, of course!

Resource materials to print

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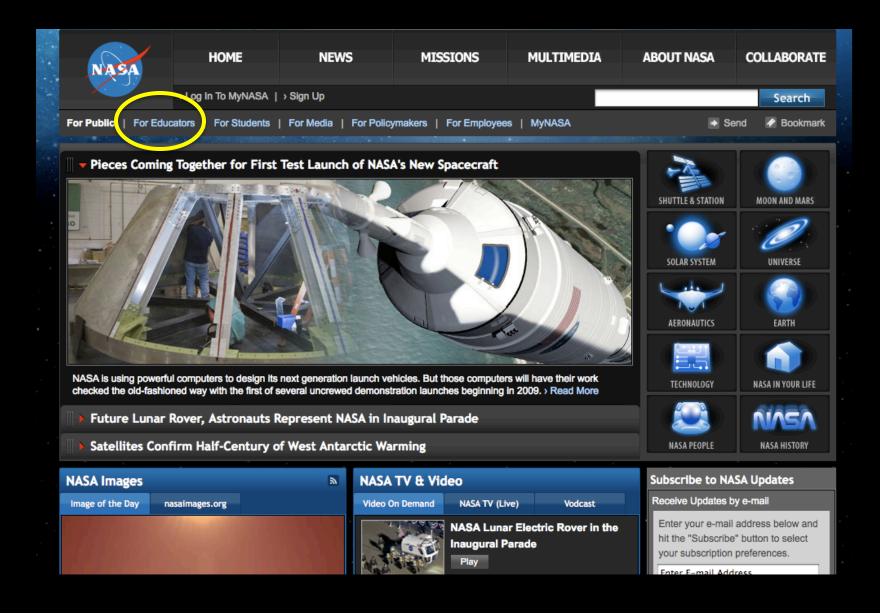
Scientific research studies

Online interactives for students to explore

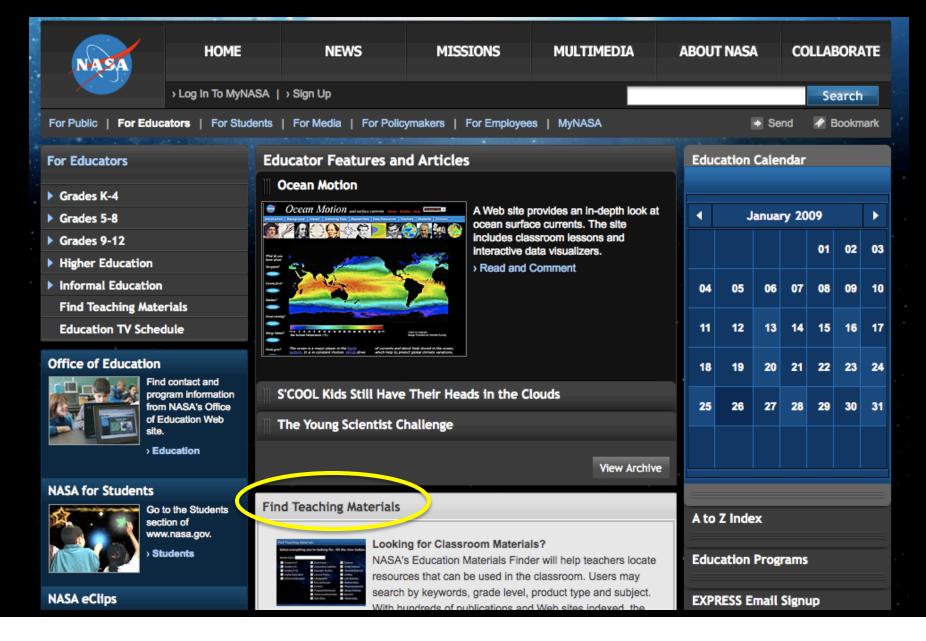
Images, images and more images!

Career profiles

www.nasa.gov



http://www.nasa.gov/audience/foreducators/index.html





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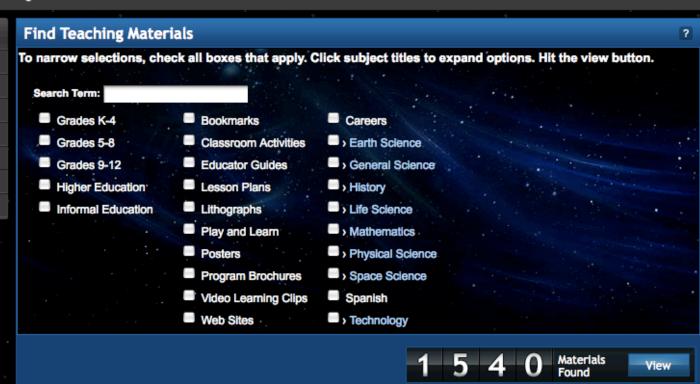
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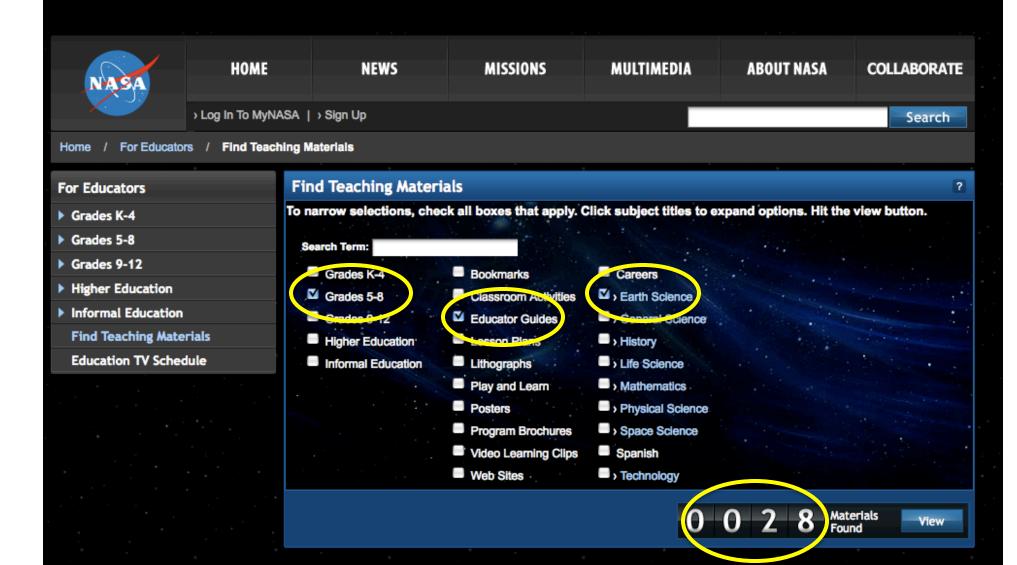
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Teaching Materials Results

Selected Grade(s): Grades 5-8 Selected Type(s): Educator Guides Selected Subject(s): Earth Science

Results 1 - 10 of 28.



1 2 3

NASA - Investigating the Climate System - Clouds

This module was developed as part of the series "Investigating the Climate System." The series includes five modules: Clouds, Energy, Precipitation, Weather, and Winds.

Resource Type: Lesson Plan, Educator Guide

Grade Level: 5-8

Subjects Covered: Earth Science > Environment | Earth Science > Geography | Earth Science > Oceanography | Earth Science > Meteorology | Mathematics > Computation and Estimation | Mathematics > Algebra | Mathematics > Graphs | Physical Science > Physics |

NASA - Planetary Geology

Study geologic processes using the activities in this educator guide from NASA.

Resource Type: Lesson Plan, Educator Guide, Other

Grade Level: 5-8, 9-12, Undergraduate Lower Division (13-14), Undergraduate Upper Division (15-16)

Subjects Covered: Earth Science > Geography | Earth Science > Geology | Earth Science > Meteorology | Mathematics > Computation and Estimation | Mathematics > Geometry | Mathematics > Measurement | Physical Science > Physics | Space Science > Astrobiology |

NASA - Exploring the Moon Educator Guide

This NASA educator guide has activities for grades 4-12.

http://neo.sci.gsfc.nasa.gov

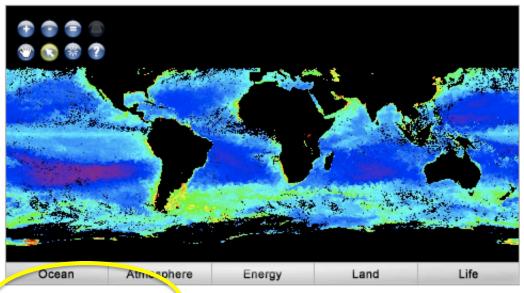


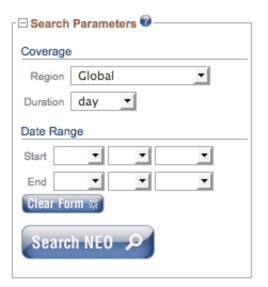




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Tip: You can use the granule overlay button (when active) to toggle the display of 5-minute granules that comprise the currently viewed scene.





Chlorophyll Concentration (1 month - Aqua/MODIS)

December 1, 2008 00:00-January 1, 2009 00:00

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⊕ October 1, 2008 00:00 to November 1, 2008 00:00

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Matching Datasets

Cinorophyll Concentration (8 day - Aqua/MODIS)

Analysis

Chlorophyll Concentration (1 day - Aqua/MODIS)





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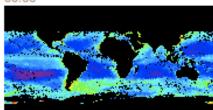
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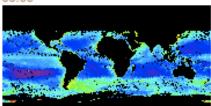
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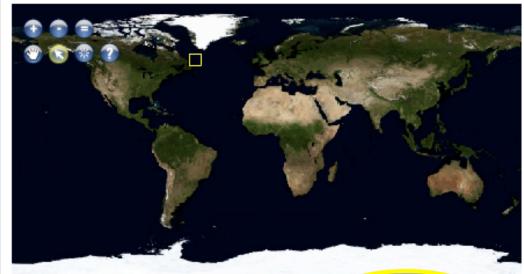
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area will be used when you analyze your

selections. You can also return to this page and refine your area at a later time.

Select Area

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-54.82 -46.64

South
50.24

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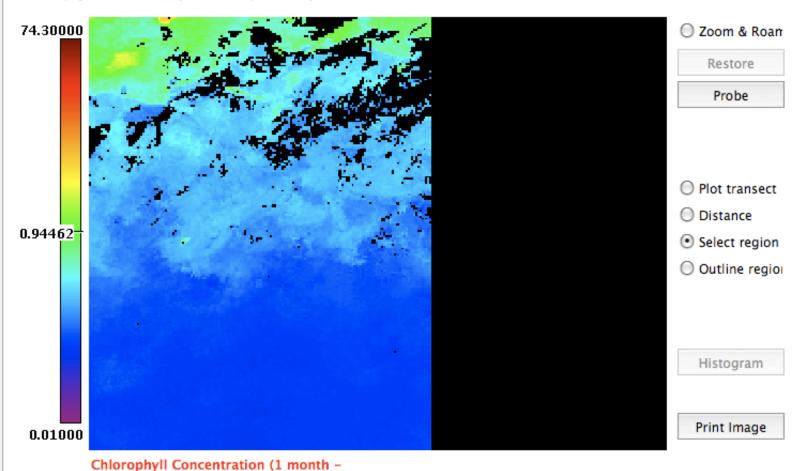
Return to analysis configuration

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For more instructions on using the ICE Tool, please see the ICE User's Guide .

Key to scenes:

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SMART SKIES™

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Distance-Rate-Time Investigations in Air Traffic Control (ATC)

Math for Grades 5-9

New! Activities for museums, fly-ins, & career days!

Interactive and Hands-on



TWO MATH PRODUCTS



- · A fresh look at traditional distance-rate-time problems
- . Featured in NCTM's middle school journal, August '06



Decision-making in air traffic control using

- · proportional reasoning
- distance-rate-time relationships









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Student Mat'ls

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Math-Based Decisions in Air Traffic Control (ATC) Grades 5 - 9

 $D = R \cdot T$

New! Activities for museums, fly-ins, & career days!



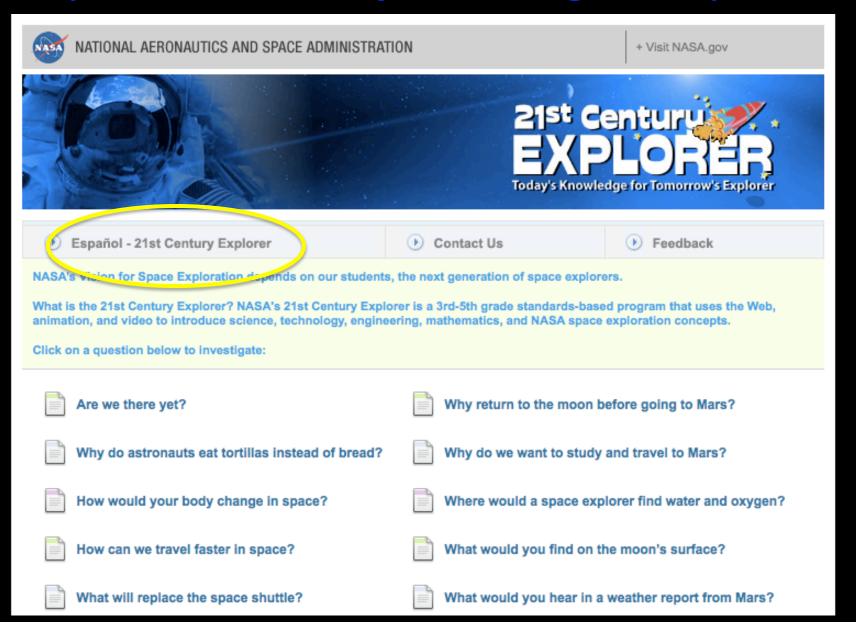
LEARN ABOUT LINEUP WITH MATHTM







http://education.jsc.nasa.gov/explorers



National Aeronautics and Space Administration



GET A LEG UP

Activity topic selected from NASA's 21st Century Explorer newsbreak "How would your body change in space?"

Educator Section

Introduction

Trading Earth's environment for the environment of space is exciting. As the environment changes, so will an astronaut's body change. Less gravity is one of the major changes of living in space. Traveling to Mars and, perhaps into deep space, will involve living in space for months or years. How will an astronaut's body change and adapt as a result of living in a reduced gravity environment for that long?

Lesson Objective

This lesson simulates the fluid shift felt by astronauts upon entering space.

Problem

On Earth, can I determine if I have simulated the fluid shift felt by astronauts when they enter space?

Learning Objectives

The students will

 collect data by measuring the circumference of the leg before and during the simulation. Grade Level: 3-5

Connections to Curriculum: Science

and Health

Basic Science Process Skills:

observing, predicting, measuring, comparing, communicating, inferring, number relationships (Association for the Advancement of Science)

Teacher Preparation Time: 20 minutes

Lesson Duration: 90 minutes

Prerequisite: none

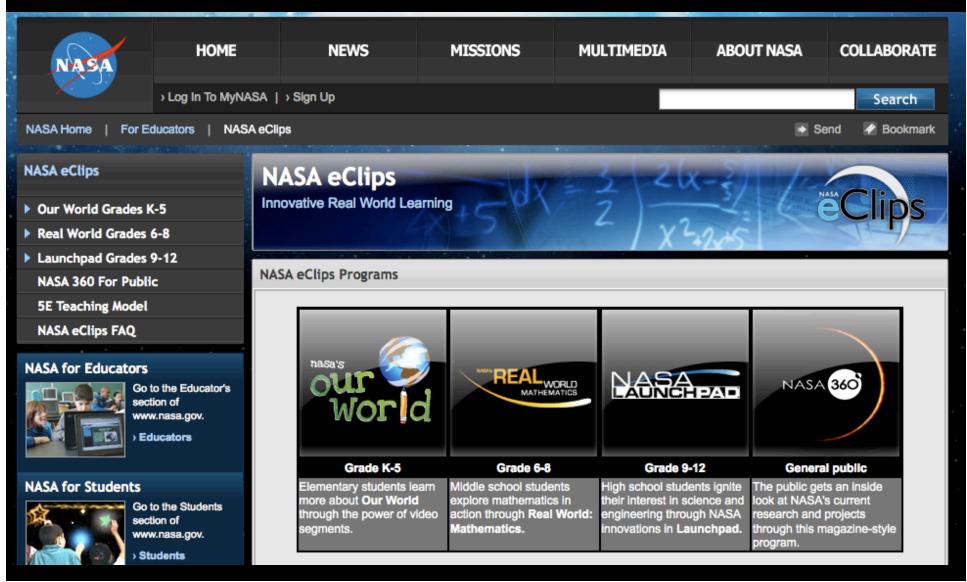
National Education Standards

addressed in this activity include Science (NSTA/NRC), Mathematics (NCTM), and Health (AAHPERD). For an alignment to standards in this activity, see page 5.

Materials Required

metric measuring tapes or string and metric rulers

http://www.nasa.gov/audience/foreducators/nasaeclips/index.html



Our World Overview

Our World

Elementary students (grades K-5) learn more about Our World through the power of video segments. Through NASA's lens, the Our World segments compare the natural world with the designed world, illustrating ways to make the most of this world while propelling us into new worlds. This program supplements existing elementary learning objectives not only in science, technology, engineering and mathematics, but also in reading, writing, and visual and performing arts.

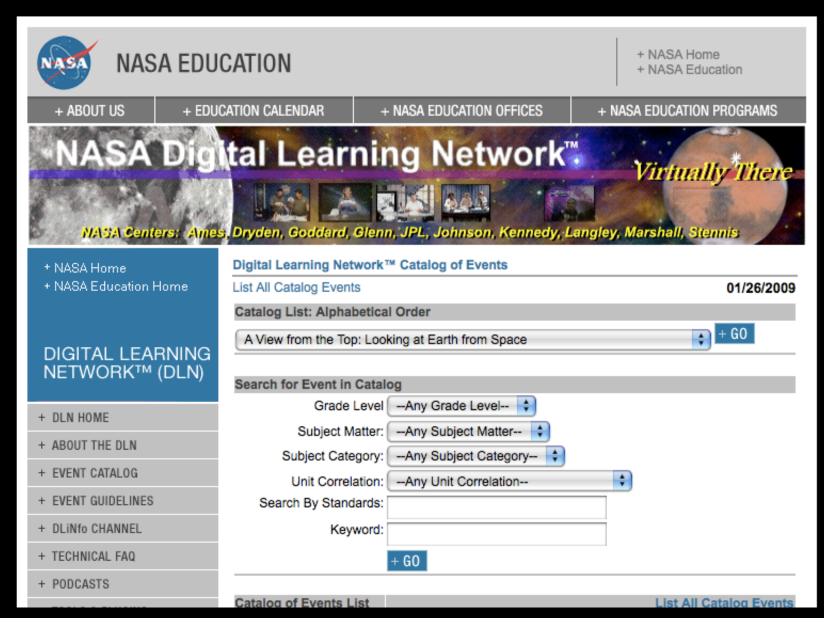
Click on the images below to access video content and teacher guides.



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Event Details

12/07/2006

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Astronomy: Bringing the Past to Light

Email to Friend



Target Audience: Students Educators: K-12

Grade Level: 5-8

Event Focus: How has the invention and improvement of telescopes changed the world of astronomy throughout history?

Description:

Join us as we explore the history of telescopes from the early Galilean refractor to the future generation of NASA's space-based telescopes, with a special focus on the Hubble Space Telescope. Students will be guided along a timeline of astronomical history to understand how improvements to the basic telescope design allowed for greater and more distant exploration opportunities. Included in this event is an investigation activity about the Hubble Space Telescope in which students will apply math concepts such as estimation and multiplication. The event concludes with an exciting look at the future of NASA's space-based telescope missions.

Note: This event can be made into a one hour professional development for educators upon request!

Instructional Objectives:

Students will be able to compare and contrast different telescope designs (reflecting.

For additional resources, contact your state's NASA Education Specialist

Maryland – Trena Ferrell Trena.M.Ferrell@nasa.gov

New Jersey – Tom Estill Thomas.J.Estill@nasa.gov

Or try your state's NASA Educator
Resource Center