## AFTERSCHOOL TRAINING TOOLKIT

## Integrating Science Across the Curriculum

## Exploring Earthquakes: Earth Foldable

## Description:

This 3-D graphic organizer, called a foldable, is a powerful learning tool to help students visualize complex information about the Earth, including what scientists think a crosssection of the Earth looks like, time on Earth, the reason for the seasons, and Earth's place in the solar system. This foldable is a natural extension of The Restless Earth and The Magic School Bus Inside the Earth. This foldable will take more than one 45-minute session to complete, and can be done in conjunction with a Webquest about the Earth. (To find interesting Web sites see the Toolkit Resources and References.) Students should complete a vocabulary foldable prior to attempting this more complex foldable.
Download, print, and copy the instructions and foldables. Read the instructions on page 4 carefully before you begin, and then create a foldable as a model for the students to follow.
Allow students to personalize their foldables by

- coloring and labeling the oceans and continents;
- drawing, coloring, and labeling the sun, planets, and asteroid belt;
- coloring the crust, mantle, outer core, and inner core of the Earth; and
- creating a time and seasons vocabulary foldable with personalized definitions and illustrations for the day, month, year, and seasons.

The 3-D graphic organizers (called "foldables") presented in this lesson were adapted from the work of Dinah Zike.



Inside, small flaps closed.


Inside, small flaps opened.


## Step 1.

Fold an $11^{\prime \prime} \times 17^{\prime \prime}$ piece of paper from each outside edge into the middle.


## Step 5.

Glue page 6 to the middle section of the 11 " $\times 17$ " paper.


Step 8.
Glue right half of page onto right side of $11^{\prime \prime} \times 17^{\prime \prime}$ spread. Match up the bottom right corner for positioning.


Step 2.
Print out page 5 onto an $8-1 / 2^{\prime \prime} \times 11^{\prime \prime}$ piece of paper. Cut in half lengthwise.


Step 6
Cut page 7 where indicated and glue to the left flap of the 11 " $\times 17$ " paper.

Glue the two halves of the Earth from Step 2


Step 3.


Step 4.
Open the $11^{\prime \prime} \times 17^{\prime \prime}$ paper.


Step 7.
Trim $1 / 2^{\prime \prime}$ off the top of a new $8-1 / 2^{\prime \prime} \times 11^{\prime \prime}$ page. Fold lengthwise. Cut left half into four even horizontal sections.


Step 9.
Fold over flaps and label.


Outside view.
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