#### **NATIONAL PARTNERSHIP FOR QUALITY AFTERSCHOOL LEARNING** www.sedl.org/afterschool/toolkits

# **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.

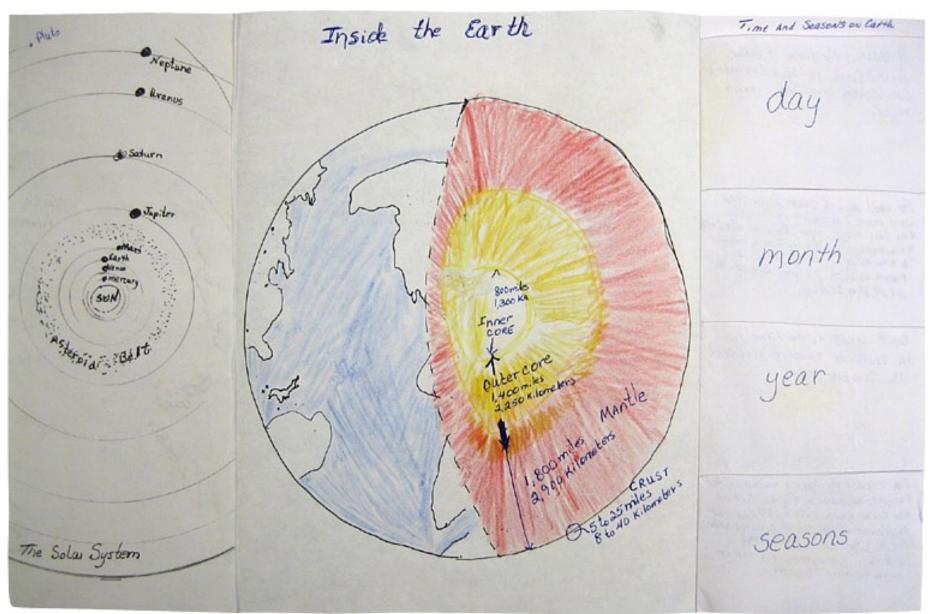
Allow students to personalize their foldables by

- 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.

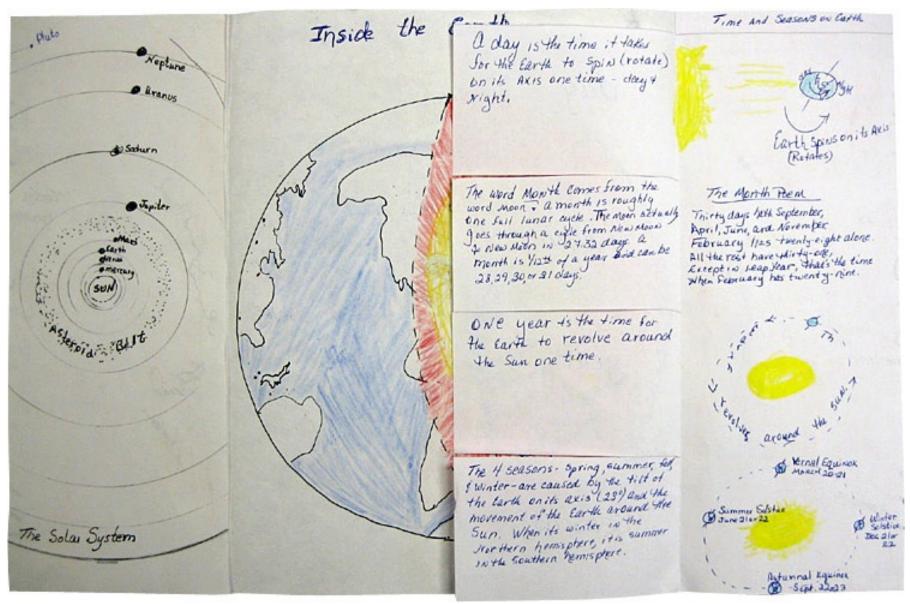
The 3-D graphic organizers (called "foldables") presented in this lesson were adapted from the work of Dinah Zike.

Outside the Egern	A TANK I AND
Aretic Ocean	
As Shorth Americano	
Asia Registic Atlantic Atlantic Atlantic Atlantic	
Souh America	
01/ 4	
Antaretica	

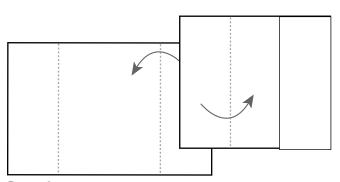
Outside front.



Inside, small flaps closed.

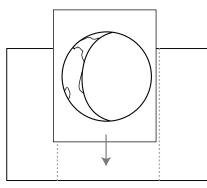


Inside, small flaps opened.



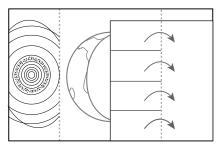
### Step 1.

Fold an 11" x 17" piece of paper from each outside edge into the middle.



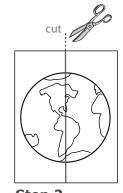
Step 5.

Glue page 6 to the middle section of the 11" x 17" paper.



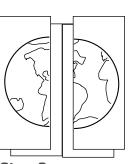
### Step 8.

Glue right half of page onto right side of 11" x 17" spread. Match up the bottom right corner for positioning.



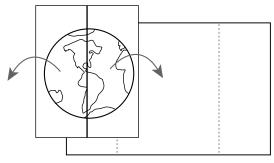
Step 2.

Print out page 5 onto an 8-1/2" x 11" piece of paper. Cut in half lengthwise.



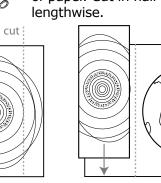
Step 3.

Glue the two halves of the Earth from Step 2



Step 4.

Open the 11" x 17" paper.



Inside the Earth

Fold over flaps and label.

Step 6.

Step 9.

cut

Cut page 7 where indicated and glue to the left flap of the 11" x 17" paper.

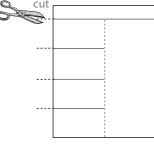
day

month

year

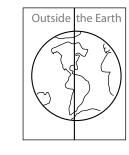
seasons

4

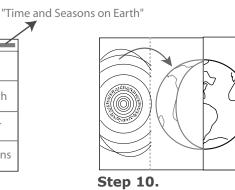


Step 7.

Trim 1/2'' off the top of a new 8-1/2" x 11" page. Fold lengthwise. Cut left half into four even horizontal sections.



Outside view.



To close, fold left and right flaps into the middle.





