# **EDC EARTH SCIENCE**



**EDC EARTH SCIENCE** involves students by challenging them with thought-provoking investigations and questions they hear about in the news or at their family dining table. Students are introduced to this course with an exciting excerpt from the novel *Red Mars*. Their performance assessment in The Mid-Year Challenge—where students prepare a news story (live, video, blog, written) and make predictions about what Earth will be like in the year 2100. In the End-of-Year Challenge students apply the knowledge they have gained during this course to prepare an essay or presentation predicting what Earth will be like when its interior cools completely.

*EDC Earth Science* may be purchased as a full-year disciplinebased program in one hard bound book OR as units to create a customized scope and sequence (on the following pages).



Resources, online student book, and supplemental resources)	
<b>MY LAB-AIDS BOOKSHELF FOR STUDENTS</b> (access to online book, student sheets, resource supplements; 7 years)	EDCE-10LSP-7
STUDENT BOOK (hardcover)	EDCE-1SB
TEACHER'S EDITION (hardcover)	EDCE-1TE
SCIENCE LAB NOTEBOOK (bulk pricing up to 55% off)	SLN-1
Small class sizes for 5 sections of 16 students might consider our COMPLETE EQUIPMENT PACKAGE FOR 16 STUDENTS PER CLASS	EDCE-1H-1000NC

For custom orders and standards correlations by state please see the "Your State" page on **lab-aids.com** to contact your state's Science Curriculum Sales Consultant.



## **PROGRAM COMPONENTS**

Individual components combine to form a complete learning system.

- Student book that seamlessly integrates investigations, labs, and readings into the context of the issue's storyline
- Equipment to carry out each embedded activity for 5 classes of 32 students (in groups of four, pairs or individuals)
- My Lab-Aids online student and teacher bookshelf portals
- Student Science Lab notebook

Materials needed for embedded labs and activities are part of the Complete Equipment Package



- Pre-Activity Discussion
  Discuss the following topic with your clasmates to help you prepare for the investigation. Record your ranverse in your notebook.
  Based on the informatic ten year of eruptions that accur in 1) shald avalance with the informatic tenergy of eruptions that accur in 1) shald valances along subductions of eruptions that accur in 1) shald any subduction core.
  Explain why monthains formed by shald volcances have a different shape than those formed by stratovolcances.

## Procedure

Record all your observations in your science notebook. Part A: Eruptions with Less-Gassy Magma

- Carefully observe the two types of "magma" and describe any similari-ties and differences.
- Use and differences.
  Set up your volcano model as shown below by following these steps:
  Use the white score to carefully add one scoreful of bakang soda into the "magna chamber." Ty to get as little as possible stuck on the sides of the tube.
  - the sides of the tube. b. Carefully push the "nagma chamber" down through the "crater" of the white volcano come. c. value the obtained the "nagma chamber" down into the hole of the white volcano base.
- Use the graduated cup to measure, then pour. 5-mL of less-gassy "magma" into the "magma chamber."
- Magma must use magma channer. 4. Without disturbing the model, observe it carefully for 2 minutes.



### Materials EACH GROUP OF S

60-mL bottle of less-gassy "magma" (red) 60-mL bottle of more-gassy "magma" (colorless) plastic volcano model (cone and base) "magma chamber" (clear plastic tube) subher stopper vial of baking soda
 white plastic scoop · 30-mL graduated cup cup of water
 metric ruler access to a timer or a clock with a second hand paper towels and/or a sponge FOR EACH STUDENT • safety eyewear SAFETY

Both types of "magma" contain dilute acid. Wea safety goggles and avoid direct contact with skin the ac 299

