

Grade 6 STUDENT EDITION – Tabbing Walk Through



Begin Here: Please watch this 7-minute <u>Science Techbook Overview</u> video as you begin your review.

Unit 1 Systems on Earth SE page 1

Concept 1.3 Earth's Interacting Systems SE page 138



Unit Anchor Phenomenon: Biosphere 2

Real world phenomena are introduced through up-to-date images, videos, subjects, and situations. Students learn about Biosphere 2, a series of buildings in which scientists enclosed various organisms to determine what resources and conditions humans would need to live on Mars. Students examine the systems needed for survival and their interactions.



Investigative Phenomenon: Change in Global Sea Level

In order to support student inquiry and get them thinking like a scientist, students analyze graphical data that models changes in Earth's ocean systems as they change over time, constructing questions that address reasons for the changes.



Formative Assessment: What Do You Already Know About Earth's Interacting Systems?

Students summarize their initial learning by using evidence and observations to summarize information about Earth's systems, making predictions about Earth's conditions and how these relate to the needs of plants. 3D questioning provides scaffolding up to the summative performance assessments.



Hands on Activity: Plants in Saltwater

Students will use this investigation to provide evidence that will allow them to construct an explanation that includes qualitative relationships between the amount of cell shrinkage and the concentration of salt water. Detailed Teacher Guides and pre-packaged hands-on kits included.



Claim, Evidence, Reasoning: <u>Change in Global Sea Level</u>

Students construct scientific explanations to the investigative phenomenon and the *Can You Explain?* question or a question of their own. Students will learn to use evidence as a natural part of writing like a scientist.



Unit Project 3D Performance-Based Assessment: Martian Biosphere

The Unit Project allows students to return to the anchor phenomenon, Martian Biosphere, and apply the performance expectations for the unit to solve or research a problem. This summative assessment provides students with the opportunity to determine what Earth systems would need to be represented in a Martian habitat.

Examples of Additional Concept Features available ONLINE

The Beyond section includes additional resources related to the concept including additional readings, hands on activities, and interactives. You may use these resources for remediation, extension, or differentiation, depending on the needs of your students. You will find even more resources through Search. **Beyond Resources, Earth's Interacting Systems**

Science Content Channels - Access Discovery Education's featured resources in the <u>curated collection of Science channels</u>. No matter what science topics you're teaching, you'll find videos, interactives, and instructional activities to design engaging lessons in all content areas.

