

Simulation
Curriculum

THE LAYERED EARTH

Exploring Geology

Interactive Earth Science
Curriculum for Grades 8-12

From the makers of the award winning Starry Night® curriculum

THE LAYERED EARTH

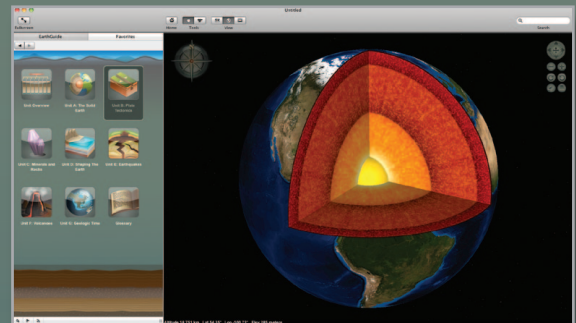
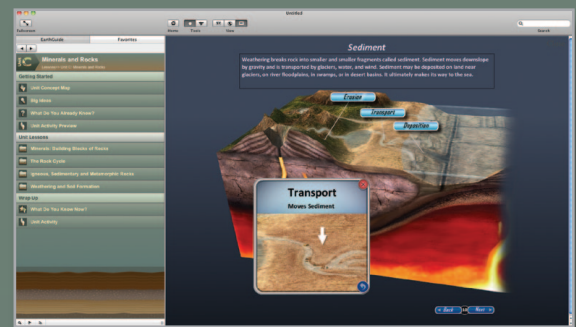
The Educational Advantage for Earth Science

The Layered Earth is a complete teaching solution for Earth Science. It provides a student-focused, rich multi-media environment that includes lessons, interactive computer simulations, innovative exercises, numerous extensions and connections, and assessment activities.



Educational components include:

- ▶ **26 lesson plans** correlated to state, and national standards that meet curriculum needs.
- ▶ Clear articulation of **learner expectations** for each lesson through the use of an introductory Guiding Question, bulleted Key Concepts, and a Lesson Summary highlighting the main points in review.
- ▶ An attractive learning environment with clear and easy to follow **progression of concepts**.
- ▶ Accurate and innovative **visualizations**, and **simulations** that engage students and illustrate and enhance basic concepts.
- ▶ In-depth **discovery exercises** that foster observation, measurement, mathematical, and analytical thinking skills.
- ▶ Pre- and post-**assessment activities** to test student knowledge and learning, and reinforce basic concepts.
- ▶ Incorporates **learner strategies** from current educational research such as anticipation guides, multiple intelligences, and graphic organizers.
- ▶ Numerous **links and extensions** for a rich learning environment that provide connections to mathematics, literacy, history, travel, and STSE (Science, Technology, Society, and the Environment).



Topics covered include:

- ▶ The Earth's interior
- ▶ Plate tectonics
- ▶ Earth's landforms
- ▶ Earthquakes
- ▶ Volcanoes
- ▶ Minerals and rocks
- ▶ Geologic time

The Layered Earth, your educational advantage for Earth Science from the makers of the award-winning **Starry Night** Educational Curriculum.

For more information or to pre-order, please contact us:

Toll Free Phone: 877-290-8256

FAX: 952-935-4050

Email: education@layeredearth.com

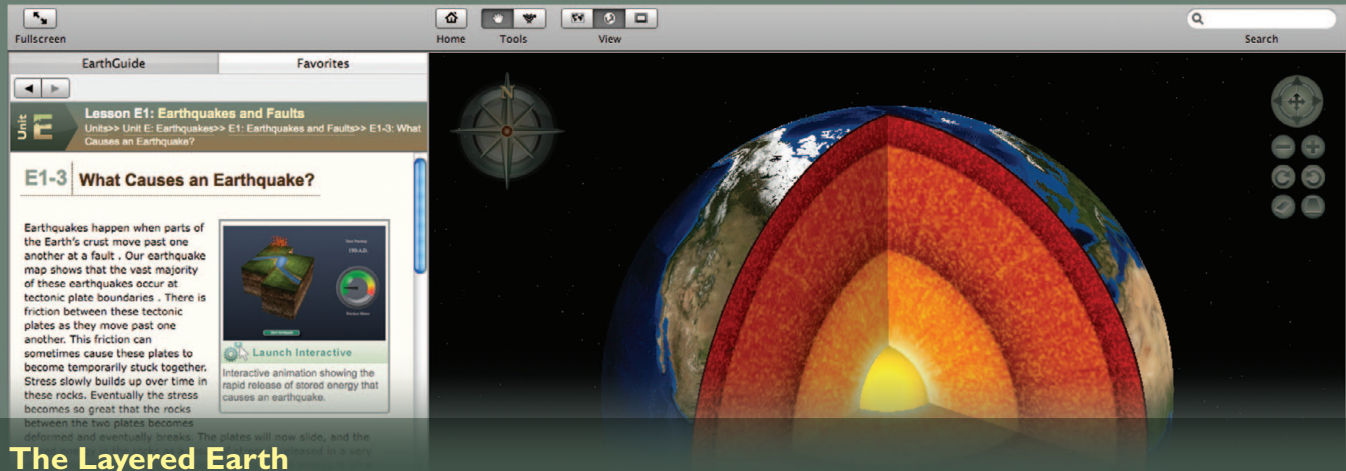
www.LayeredEarth.com

THE LAYERED EARTH

The Educational Advantage for Earth Science

The Layered Earth is a powerful and intuitive 3D interactive simulation of the Earth designed specifically to immerse and engage your students in learning Earth Science. All the relevant state and national standards are covered in this revolutionary software-based curriculum.

The Layered Earth puts you in control of rich geological databases, including plate tectonics, earthquakes, volcanoes, Earth's interior structure, tsunamis, magnetism, rock ages, and much more. Whether you are viewing the Earth's surface in spectacular detail, or exploring the inner workings of a volcano, *The Layered Earth* gives you spectacular realism and simple, intuitive control.



The Layered Earth

- ▶ Intuitive, **easy to use** interface that is more efficient, easier to learn and more satisfying to use.
- ▶ Zoom from outer space into any place on Earth. High resolution satellite imagery and elevation data allows you to experience Earth's terrain in visually rich 3D, just as if you were really there.
- ▶ Connect to **interactive whiteboards** in the classroom.
- ▶ Powerful, contextual **search feature** generates relevant results from within lessons, saved files, media elements and a geological database with over 1.4 million locations.
- ▶ Organized by topic area, the **Layer Manager** shows an extensive list of all the available data and imagery. Activate layers by clicking on the appropriate check box. Easy to **expand** to include additional data and imagery.
- ▶ **EarthGuide**. A rich and interactive multimedia pane that works just like a web browser and contains over 26 lesson plans on geology. No internet connection required. EarthGuide includes all the data required.
- ▶ **Anaglyph 3D** in conjunction with a pair of red/cyan anaglyph glasses (included) will allow you to see a true 3-Dimensional Earth.
- ▶ **Measuring tool** allows you to measure the distance between two points and determine elevation, slope, radius and area.
- ▶ **KML support** allows you to import hundreds of existing KML datasets, including **tours**.
- ▶ A database of pre-saved **favorite files** instantly takes you to interesting visualizations. You can save your own views as favorites and organize them in folders for easy browsing during lessons.
- ▶ Immersive **full-screen mode** hides all controls allowing students to focus on content.
- ▶ Slice open the Earth and explore its **interior structure** and chemical composition.
- ▶ **15 flash interactives** take you beyond the Earth's surface and into an exploration of volcanoes, earthquakes, tsunamis, Earth's interior and more.
- ▶ Add rich **annotations** and markers to anywhere on the Earth's surface.
- ▶ View the Earth in different **map projections**, including mercator and sinusoidal.
- ▶ View a live **earthquake feed** (internet connection required), **export images** and much more!

THE LAYERED EARTH

System Requirements

Windows: Requires Windows XP, Vista or 7, 1 GHz or higher processor, 1 GB RAM and 5 GB of hard disk space. 128 MB OpenGL capable graphics card. Minimum recommended monitor resolution of 1024 x 768 pixels.

Macintosh: Requires OS X 10.6 (Snow Leopard) or higher, Intel based processor, 1 GB RAM and 5 GB of hard disk space. Will not run on OS 10.5 or earlier. 128 MB OpenGL capable graphics card. Minimum recommended monitor resolution of 1024 x 768 pixels.

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