

## Earth Science

### Resource List for Grades 9 through 12

The Resources in this document can be used with the Earth Science Curriculum Packet for grades 9 through 12.

#### Books

##### Non-fiction and Biography

- The Ends of the World: Volcanic Apocalypses, Lethal Oceans, and Our Quest to Understand Earth's Past Mass Extinctions, 2018 by Peter Brannen (Author).  
Our world has ended five times: it has been broiled, frozen, poison-gassed, smothered, and pelted by asteroids. In this book the author dives into deep time, exploring Earth's past dead ends, and in the process, offers us a glimpse of our possible future.
- The Lost Art of Reading Nature's Signs: Use Outdoor Clues to Find Your Way, Predict the Weather, Locate Water, Track Animals—and Other Forgotten Skills, 2015 by Tristan Gooley (Author).  
Whether you're walking in the country or city, along a coastline, or by night, this is the ultimate resource on what the land, sun, moon, stars, plants, animals, and clouds can reveal, if you know how to look!
- National Geographic Pocket Guide to Rocks and Minerals of North America, 2014 by Sarah Garlick (Author).  
This basic beginner's field guide to North American geology helps anyone identify common rocks, minerals, gems, fossils, and land formations. In a logical, user-friendly, highly visual format.
- Natural History: The Ultimate Visual Guide to Everything on Earth (Smithsonian), 2010 by DK (Author).  
Natural History presents an unrivaled visual survey of Earth's natural history. It gives a clear overview of the classification of our natural world (over 6,000 species) and looks at every kingdom of life, from bacteria, minerals, and rocks to fossils to plants and animals.
- Nature's Wrath: Surviving Natural Disasters (Survivors: Ordinary People, Extraordinary Circumstances), 2008 by Ellyn Sanna (Author).  
Presents the experiences of people who have survived a natural disaster, telling how their lives have changed as a result.
- Plate Tectonics, Volcanoes, and Earthquakes (Dynamic Earth), 2010 by John P Rafferty (Editor).  
Presents an introduction to volcanoes and earthquakes, explaining how the movement of the Earth's interior plates cause their formation and describing the volcanoes which currently exist around the world as well as some of the famous earthquakes of the nineteenth through twenty-first centuries.

- The Rise and Fall of the Dinosaurs: A New History of a Lost World, 2018 by Steve Brusatte (Author).  
This title tells the complete, surprising, and new history of the dinosaurs, drawing on cutting-edge science to dramatically bring to life their lost world and illuminate their enigmatic origins, spectacular flourishing, astonishing diversity, cataclysmic extinction, and startling living legacy.
- The Usborne Encyclopedia of Planet Earth, 2009 by Anna Claybourne (Author), Gillian Doherty (Author), Rebecca Treays (Author).  
Presents information on all facets of Earth science, including geology, earthquakes and volcanoes, climate and weather, biology, and ecology.
- Super Volcano: The Ticking Time Bomb Beneath Yellowstone National Park, 2007 by Greg Breining (Author).  
Despite growing evidence of geothermic activity under America's first and foremost national park, it took geologists a long time to realize that there was a volcano beneath Yellowstone. And then, why couldn't they find the caldera or crater? Because, as an aerial photograph finally revealed, the caldera is 45 miles wide, encompassing all of Yellowstone.

## Fiction

- The Amber Project, 2015 by J N Chaney (Author).  
In 2157, a mysterious gas known as Variant spreads across the globe, killing or mutating most organic life. The surviving humans take refuge in an underground city, determined to return home. But after generations of failures and botched attempts, hope is beginning to dwindle. That is, until a young scientist makes a unique discovery--and everything changes.
- Earthquake (Sweet Valley High), 1998 by Francine Pascal (Author).  
Twin sisters Jessica and Elizabeth Wakefield have been ripped apart in the chaos following a devastating earthquake. Through the agony, fear, and despair, they must dig through the rubble to find each other again, hoping against hope that they haven't been separated for good.
- Journey to the Centre of the Earth, 2017 by Jules Gabriel Verne (Author), Griffith and Farran (Translator).  
Originally published in 1864. This is the story of a geology professor chances upon a manuscript in which a 16th-century explorer claims to have found a route to the earth's core. He can't resist the opportunity to investigate, and with his nephew, he sets off across Iceland in the company of a native guide.
- Life as We Knew It, 2008 by Susan Beth Pfeffer (Author).  
A high school sophomore's disbelief turns to fear in a split second when an asteroid knocks the moon closer to Earth, like "one marble hits another." The result is catastrophic. How can her family prepare for the future when worldwide tsunamis are wiping out the coasts, earthquakes are rocking the continents, and volcanic ash is blocking out the sun?

## Magazines, Journals, Miscellaneous

- Earth Magazine: The Science Behind the Headlines  
<https://www.earthmagazine.org/>
- Science Daily: Earth Science News  
[https://www.sciencedaily.com/news/earth\\_climate/earth\\_science/](https://www.sciencedaily.com/news/earth_climate/earth_science/)

- Smithsonian Earth: Smithsonian Earth is a digital streaming service with original documentaries that bring you closer to nature's most fascinating animals and wildest locations. After a 30-day free trial, a subscription to Smithsonian Earth is \$3.99/month.  
<https://smithsonianearthtv.com/>

### **Online Links**

- Exploratorium: Science Museum for Kids  
<https://www.exploratorium.edu/explore/earth-ocean-atmosphere>
- Smithsonian Museum of Natural History: From dinosaur exhibits to displays of rare gems, this acclaimed museum celebrates the natural world.  
<https://naturalhistory.si.edu/>

### **Background information for the Educator**

- The Importance of Teaching Earth Science: Article in Teach Magazine  
<http://teachmag.com/archives/10545>
- Teacher Vision: Teaching Earth Science  
<https://www.teachervision.com/subjects/science/earth-science>