

HMH SCIENCE **DIMENSIONS™**  
ENGINEERED for the  
NEXT GENERATION

# Earth & Space Science

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**GRADES 9–12**

## Scope and Sequence

### Unit 1: Introduction to Earth and Space

ESS2-2, ESS2-7

**Lesson 1: Studying Earth**

**Lesson 2: Earth's Systems**

*Thing Explainer:* Shared Space House

### Unit 2: Systems of Matter and Energy

ESS2-2, ESS2-3, ESS2-6

**Lesson 1: Earth's Energy**

**Lesson 2: Minerals**

**Lesson 3: The Rock Cycle**

**Lesson 4: Cycles and Cycle Models**

### Unit 3: Natural Resources

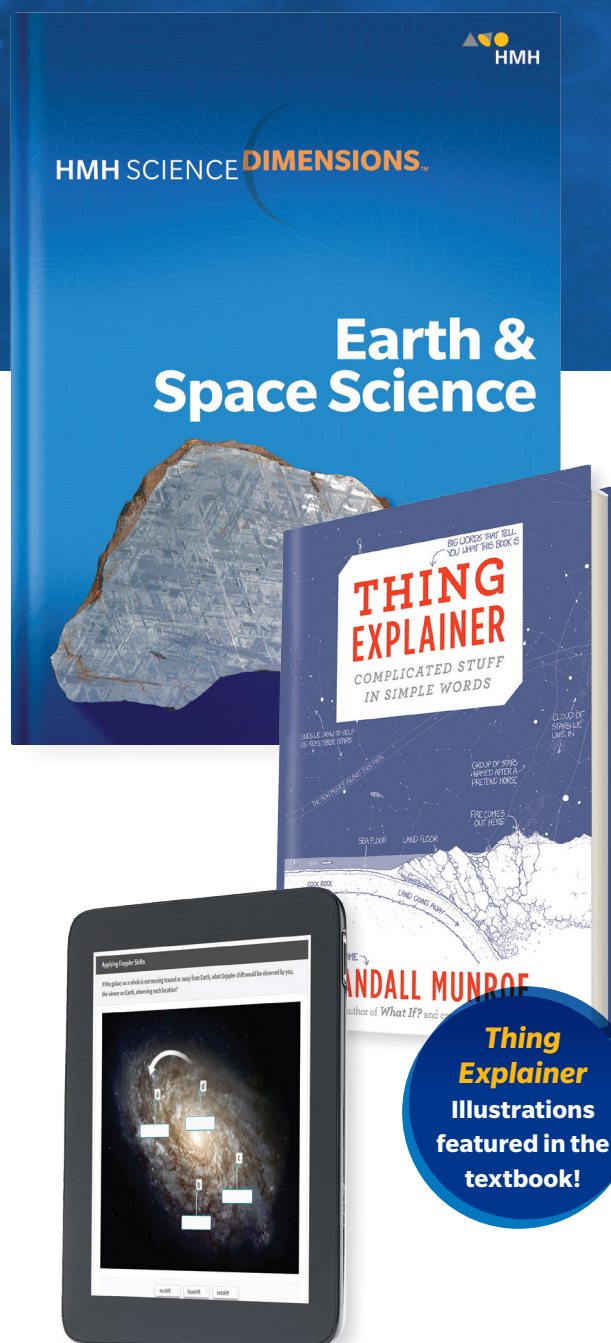
ESS3-2, ESS3-4, ESS3-6, ETS1-1, ETS1-2, ETS1-3

**Lesson 1: Designing Solutions to Resource Problems**

**Lesson 2: Rock and Mineral Resources**

**Lesson 3: Energy Resources**

*Thing Explainer:* Stuff in the Earth We Can Burn



## Unit 4: Earth in the Solar System

ESS1-4, ESS1-6, ESS2-2, ESS2-4

**Lesson 1: Solar System Formation**

**Lesson 2: Gravity and Orbits**

**Lesson 3: Earth and the Sun**

**Thing Explainer:** Worlds Around the Sun

## Unit 5: Space

ESS1-1, ESS1-2, ESS1-3

**Lesson 1: Observing Matter in Space**

**Lesson 2: Stars**

**Lesson 3: The Universe**

**Lesson 4: Evidence for the Big Bang**

**Thing Explainer:** Our Star

## Unit 6: Plate Tectonics

ESS1-5, ESS2-1, ESS2-3, ESS3-1

**Lesson 1: Earth's Dynamic Interior**

**Lesson 2: Tectonic Plates**

**Lesson 3: Plate Interactions**

**Lesson 4: Natural Hazards**

**Thing Explainer:** Big Flat Rocks We Live On

## Unit 7: Earth's Changing Surface

ESS2-1, ESS2-2, ESS2-5

**Lesson 1: Surface Processes**

**Lesson 2: Earth's Surface**

**Lesson 3: Development of Features**

**Thing Explainer:** Earth's Surface

## Unit 8: Earth's Water

ESS2-2, ESS2-5, ETS1-1, ETS1-2

**Lesson 1: Properties of Water**

**Lesson 2: Water Resources**

## Unit 9: The Atmosphere

ESS2-2, ESS2-4, ESS2-7, ESS3-1, ESS3-5

**Lesson 1: The Atmosphere**

**Lesson 2: Weather Prediction and Modeling**

**Lesson 3: Climate and Climate Change**

**Thing Explainer:** Cloud Maps

## Unit 10: History of Earth

ESS1-5, ESS1-6, ESS2-7, ESS3-5

**Lesson 1: The Rock and Fossil Record**

**Lesson 2: Geological Time**

**Lesson 3: Earth: Past, Present, and Future**

**Thing Explainer:** Earth's Past

## Unit 11: Human Activity and Earth

ESS3-1, ESS3-3, ESS3-4, ESS3-6, ETS1-1, ETS1-2, ETS1-3, ETS1-4

**Lesson 1: Geographical Influences on Human Activities**

**Lesson 2: Sustainability of Human Activities**



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