

Science Fusion
Module E: The Dynamic Earth
Homeschool Pacing Guide

Options for Instruction: Two parallel paths meet the unit objectives, with a strong inquiry strand woven into each. Follow the Print Path, the Digital Path, or your customized combination of print, digital, and inquiry.

Note: Many of the Labs require specialized scientific equipment. Please check the materials list in the TE.

Unit 1: Earth’s Surface

Pacing Guide			
SE = Student Edition Interactive Worktext			TE = Teacher Edition
Days	Activity Type	Print	Digital
Unit 1 Opener			
Lesson 1: Earth’s Spheres			
1-2 days	Big Idea	SE, pp. 1–3; *TE, pp. 12–13	
	Lesson	SE, pp. 4–15; *TE, pp. 22–27	Screens 1–13
1 day	Review	SE, pp. 16–17; *TE, p. 28	
	Assessment		◊ Lesson 1 Quiz
(Optional)	Labs		† Quick Lab: Explaining Earth’s Systems † Quick Lab: Model Earth’s Spheres † S.T.E.M. Lab: Change and Balance Between Spheres

Lesson 2: Weathering			
1-2 days	Lesson	SE, pp. 18–25; *TE, pp. 38–41	Screens 1–9
1 day	Review	SE, pp. 26–27; *TE, p. 42	
	Assessment		◊ Lesson 2 Quiz
(Optional)	Labs		† Quick Lab: Mechanical Weathering † Quick Lab: Weathering Chalk † Quick Lab: How Can Materials on Earth’s Surface Change?
Lesson 3: Erosion and Deposition by Water			
1-2 days	Lesson	SE, pp. 28–39; *TE, pp. 52–57	Screens 1–14
1 day	Virtual Lab		Screens 1–13
1 day	Review	SE, pp. 40–41; *TE, p. 58	
	Assessment		◊ Lesson 3 Quiz
(Optional)	Enrichment	Think Science, SE, pp. 42–43; *TE, pp. 60–61	
(Optional)	Labs		† Quick Lab: Wave Action on the Shoreline † Quick Lab: Moving Sediment † Quick Lab: Modeling Stalactites and Stalagmites † Exploration Lab: Exploring Stream Erosion and Deposition

Lesson 4: Erosion and Deposition by Wind, Ice, and Gravity			
1-2 days	Lesson	SE, pp. 44–53; *TE, pp. 70–74	Screens 1–10
1 day	Virtual Lab		Screens 1–12
1 day	Review	SE, pp. 54–55; *TE, p. 75	
	Assessment		◊ Lesson 4 Quiz
(Optional)	Labs		† Quick Lab: Modeling a Glacier † Quick Lab: Modeling a Landslide
Lesson 5: Soil Formation			
1-2 days	Lesson	SE, pp. 56–65; *TE, pp. 84–88	Screens 1–12
1 day	Review	SE, pp. 66–67; *TE, p. 89	
	Assessment		◊ Lesson 5 Quiz
(Optional)	Labs		† Quick Lab: Observing Life in Soil † Quick Lab: Modeling a Soil Profile † Quick Lab: Observing the Impact of Earthworms on Soil † Field Lab: Comparing Soil Characteristics
Unit 1 Review and Assessment			
1 day	Review	SE, pp. 70–74; *TE, pp. 90–92	Online Unit Self Quiz
1 day	Assessment		◊ Unit 1 Test

* The digital Teacher’s Edition can be accessed through the Online Teacher Digital Management System at the Lesson Level.

TE: Lesson Level Resources > Lesson Teacher Support > Teacher Edition

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Lab Manuals: Lesson Level Resources > Lesson Inquiry Resources > Lab Manuals

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Lab Datasheets: Lesson Level Resources > Lab Datasheet

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Unit 2: Earth’s History

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Days	Activity Type	Print	Digital
Unit 2 Opener			
Lesson 1: Geologic Change over Time			
1-2 days	Big Idea	SE, pp. 75–77; *TE, pp. 102–103	
	Lesson	SE, pp. 78–89; *TE, pp. 112–117	Screens 1–10
1 day	Review	SE, pp. 90–91; *TE, p. 118	
	Assessment		◊ Lesson 1 Quiz
(Optional)	Labs		† Quick Lab: Modeling the Fossil Record † Quick Lab: Fossil Flipbooks † S.T.E.M. Lab: Exploring Landforms

Lesson 2: Relative Dating			
1-2 days	Lesson	SE, pp. 92–101; *TE, pp. 128–132	Screens 1–10
1 day	Virtual Lab		Screens 1–13
1 day	Review	SE, pp. 102–103; *TE, p. 133	
	Assessment		◊ Lesson 2 Quiz
(Optional)	Enrichment	Think Science, SE, pp. 104–105; *TE, pp. 134–135	
(Optional)	Labs		† Quick Lab: Layers of Sedimentary Rock † Quick Lab: Ordering Rock Layers † Exploration Lab: Earth’s History
Lesson 3: Absolute Dating			
1-2 days	Lesson	SE, pp. 106–115; *TE, pp. 144–148	Screens 1–11
1 day	Review	SE, pp. 116–117; *TE, p. 149	
	Assessment		◊ Lesson 3 Quiz
(Optional)	Labs		† Quick Lab: Index Fossils † Quick Lab: Radioactive Decay
Lesson 4: The Geologic Time Scale			
1-2 days	Lesson	SE, pp. 118–127; *TE, pp. 158–162	Screens 1–14
1 day	Virtual Lab		Screens 1–15
1 day	Review	SE, pp. 128–129; *TE, p. 163	
	Assessment		◊ Lesson 4 Quiz
(Optional)	Labs		† Quick Lab: Investigating Events in Earth’s History † Quick Lab: Timeline of Earth’s History

Unit 2 Review and Assessment			
(Optional)	Video-Based Project		Australian Fossils
1 day	Review	SE, pp. 132–136; *TE, pp. 164–166	Online Unit Self Quiz
1 day	Assessment		◊ Unit 2 Test

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Unit 3: Minerals and Rocks

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Days	Activity Type	Print	Digital
Unit 3 Opener			
Lesson 1: Minerals			
1-2 days	Big Idea	SE, pp. 137–139; *TE, pp. 176–177	
	Lesson	SE, pp. 140–151; *TE, pp. 186–191	Screens 1–10
1 day	Review	SE, pp. 152–153; *TE, p. 192	
	Assessment		◊ Lesson 1 Quiz
(Optional)	Labs		† Quick Lab: Cooling Rate and Crystal Size † Quick Lab: Scratch Test † Exploration Lab: Intrinsic Identification of Minerals

Lesson 2: The Rock Cycle			
1-2 days	Lesson	SE, pp. 154–163; *TE, pp. 202–206	Screens 1–10
1 day	Review	SE, pp. 164–165; *TE, p. 207	
	Assessment		◊ Lesson 2 Quiz
(Optional)	Enrichment	S.T.E.M., SE, pp. 166–169; *TE, pp. 208–211	
(Optional)	Labs		† Quick Lab: Crayon Rock Cycle † Quick Lab: Modeling Weathering
Lesson 3: Three Classes of Rock			
1-2 days	Lesson	SE, pp. 170–179; *TE, pp. 220–224	Screens 1–18
1 day	Virtual Lab		Screens 1–13
1 day	Review	SE, pp. 180–181; *TE, p. 225	
	Assessment		◊ Lesson 3 Quiz
(Optional)	Labs		† Quick Lab: Stretching Out † Quick Lab: Observing Rocks † S.T.E.M. Lab: Modeling Rock Formation
Unit 3 Review and Assessment			
1 day	Review	SE, pp. 184–188; *TE, pp. 226–228	Online Unit Self Quiz
1 day	Assessment		◊ Unit 3 Test

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Unit 4: The Restless Earth

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Days	Activity Type	Print	Digital
Unit 4 Opener			
Lesson 1: Earth's Layers			
1-2 days	Big Idea	SE, pp. 189–191; *TE, pp. 242–243	
	Lesson	SE, pp. 192–197; *TE, pp. 252–254	Screens 1–9
1 day	Review	SE, pp. 198–199; *TE, p. 255	
	Assessment		◊ Lesson 1 Quiz
(Optional)	Labs		† Quick Lab: Layers on Earth † Quick Lab: Ordering Earth's Layers † S.T.E.M. Lab: Models of Earth

Lesson 2: Plate Tectonics			
1-2 days	Lesson	SE, pp. 200–211; *TE, pp. 264–269	Screens 1–19
1 day	Virtual Lab		Screens 1–12
1 day	Review	SE, pp. 212–213; *TE, p. 270	
	Assessment		◊ Lesson 2 Quiz
(Optional)	Enrichment	People in Science, SE, pp. 214–215; *TE, pp. 272–273	
(Optional)	Labs		† Quick Lab: Tectonic Ice Cubes † Quick Lab: Mantle Convection † Quick Lab: Reconstructing Land Masses † Exploration Lab: Seafloor Spreading
Lesson 3: Mountain Building			
1-2 days	Lesson	SE, pp. 216–223; *TE, pp. 282–285	Screens 1–10
1 day	Review	SE, pp. 224–225; *TE, p. 286	
	Assessment		◊ Lesson 3 Quiz
(Optional)	Labs		† Quick Lab: What Happens When Two Objects Collide? † Quick Lab: Modeling Mountains † Quick Lab: Modeling Geologic Processes

Lesson 4: Volcanoes			
1-2 days	Lesson	SE, pp. 226–235; *TE, pp. 296–300	Screens 1–10
1 day	Review	SE, pp. 236–237; *TE, p. 301	
	Assessment		◊ Lesson 4 Quiz
(Optional)	Labs		† Quick Lab: Modeling an Explosive Eruption † Quick Lab: Volcano Mapping † Exploration Lab: Modeling Lava Viscosity
Lesson 5: Earthquakes			
1-2 days	Lesson	SE, pp. 238–245; *TE, pp. 310–313	Screens 1–10
1 day	Review	SE, pp. 246–247; *TE, p. 314	
	Assessment		◊ Lesson 5 Quiz
(Optional)	Enrichment	S.T.E.M., SE, pp. 248–251; *TE, pp. 316–319	
(Optional)	Labs		† Quick Lab: Modeling Strike-Slip Faults † Quick Lab: Earthquake Vibrations † Quick Lab: Elastic Rebound

Lesson 6: Measuring Earthquake Waves			
1-2 days	Lesson	SE, pp. 252–263; *TE, pp. 328–333	Screens 1–18
1 day	Virtual Lab		Screens 1–15
1 day	Review	SE, pp. 264–265; *TE, p. 334	
	Assessment		◊ Lesson 6 Quiz
(Optional)	Labs		† Quick Lab: Earthquakes and Buildings † Quick Lab: Locating an Earthquake’s Epicenter † S.T.E.M. Lab: Use a Seismograph to Determine the Energy in an Earthquake
Unit 4 Review and Assessment			
(Optional)	Video-Based Project		Earthquake-Proof Buildings
1 day	Review	SE, pp. 268–274; *TE, pp. 336–339	Online Unit Self Quiz
1 day	Assessment		◊ Unit 4 Test

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