

Science Fusion
Module F: Earth's Water and Atmosphere
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 Water

Pacing Guide			
SE = Student Edition Interactive Worktext			TE = Teacher Edition
Days	Activity Type	Print	Digital
Unit 1 Opener			
Lesson 1: Water and Its Properties			
1-2 days	Big Idea	SE, pp. 1–3; *TE, pp. 10–11	
	Lesson	SE, pp. 4–11; *TE, pp. 20–23	Screens 1–18
1 day	Review	SE, pp. 12–13; *TE, p. 24	
1 day	Assessment		◊ Lesson 1 Quiz
(Optional)	Labs		† Quick Lab: Reaching the Dew Point † Quick Lab: Compare Densities

Lesson 2: The Water Cycle			
1-2 days	Lesson	SE, pp. 14–23; *TE, pp. 34–38	Screens 1–9
1 day	Virtual Lab		Screens 1–15
1 day	Review	SE, pp. 24–25; *TE, p. 39	
1 day	Assessment		◊ Lesson 2 Quiz
1 day	Enrichment	S.T.E.M., SE, pp. 26–29; *TE, pp. 40–43	
(Optional)	Labs		† Quick Lab: Modeling the Water Cycle † Quick Lab: Can You Make It Rain in a Jar? † Exploration Lab: Changes in Water
Lesson 3: Surface Water and Groundwater			
1-2 days	Lesson	SE, pp. 30–39; *TE, pp. 52–56	Screens 1–13
1 day	Review	SE, pp. 40–41; *TE, p. 57	
1 day	Assessment		◊ Lesson 3 Quiz
(Optional)	Labs		† Quick Lab: Modeling Groundwater † Quick Lab: Model a Stream † Exploration Lab: Aquifers and Development
Unit 1 Review and Assessment			
1 day	Review	SE, pp. 44–48; *TE, pp. 58–60	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

◇ Online Assessments can be assigned to students through the Online Teacher Digital Management System. After you have assigned a Lesson Quiz or Unit Test, the assignment will appear on your student's account in the Things to Do section. Students can then take the test online, and it will be scored automatically.

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Unit Test = Unit Level Resources > Unit Assessment > Unit Test

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Unit 2: Oceanography

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Days	Activity Type	Print	Digital
Unit 2 Opener			
Lesson 1: Earth’s Oceans and the Ocean Floor			
1-2 days	Big Idea	SE, pp. 49–51; *TE, pp. 70–71	
	Lesson	SE, pp. 52–61; *TE, pp. 80–84	Screens 1–15
1 day	Review	SE, pp. 62–63; *TE, p. 85	
1 day	Assessment		◊ Lesson 1 Quiz
1 day	Enrichment	Think Science, SE, pp. 64–65; *TE, pp. 86–87	
(Optional)	Labs		† Quick Lab: Evaporation Rates † Quick Lab: Ocean Density † Exploration Lab: Measuring Salinity

Lesson 2: Ocean Waves			
1-2 days	Lesson	SE, pp. 66–75; *TE, pp. 96–100	Screens 1–15
1 day	Review	SE, pp. 76–77; *TE, p. 101	
1 day	Assessment		◊ Lesson 2 Quiz
1 day	Enrichment	People in Science, SE, pp. 78–79; *TE, pp. 102–103	
(Optional)	Labs		† Quick Lab: Making Waves † Quick Lab: Factors in Wave Formation † Exploration Lab: Wave Movement
Lesson 3: Ocean Currents			
1-2 days	Lesson	SE, pp. 80–91; *TE, pp. 112–117	Screens 1–8
1 day	Virtual Lab		Screens 1–13
1 day	Review	SE, pp. 92–93; *TE, p. 118	
1 day	Assessment		◊ Lesson 3 Quiz
(Optional)	Labs		† Quick Lab: Modeling the Coriolis Effect † Quick Lab: The Formation of Deep Currents † Quick Lab: Can Messages Travel on Ocean Water?
Unit 2 Review and Assessment			
1 day	Review	SE, pp. 96–100; *TE, pp. 120–122	Online Unit Self Quiz
1 day	Assessment		◊ Unit 2 Test

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Unit 3: Earth’s Atmosphere

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Days	Activity Type	Print	Digital
Unit 3 Opener			
Lesson 1: The Atmosphere			
1-2 days	Big Idea	SE, pp. 101–103; *TE, pp. 132–133	
	Lesson	SE, pp. 104–111; *TE, pp. 142–145	Screens 1–10
1 day	Virtual Lab		Screens 1–13
1 day	Review	SE, pp. 112–113; *TE, p. 146	
1 day	Assessment		◊ Lesson 1 Quiz
(Optional)	Labs		† Quick Lab: Modeling Air Pressure † Quick Lab: Modeling Air Pressure Changes with Altitude † Field Lab: Measuring Oxygen in the Air

Lesson 2: Energy Transfer			
1-2 days	Lesson	SE, pp. 114–125; *TE, pp. 156–161	Screens 1–18
1 day	Review	SE, pp. 126–127; *TE, p. 162	
1 day	Assessment		◊ Lesson 2 Quiz
1 day	Enrichment	S.T.E.M., SE, pp. 128–131; *TE, pp. 164–167	
(Optional)	Labs		† Quick Lab: The Sun’s Angle and Temperature † Quick Lab: How Can Color Affect Temperature? † Quick Lab: Modeling Convection † S.T.E.M. Lab: Heat from the Sun
Lesson 3: Wind in the Atmosphere			
1-2 days	Lesson	SE, pp. 132–141; *TE, pp. 176–180	Screens 1–10
1 day	Review	SE, pp. 142–143; *TE, p. 181	
1 day	Assessment		◊ Lesson 3 Quiz
(Optional)	Labs		† Quick Lab: Flying with the Jet Stream † Quick Lab: Rising Heat † Quick Lab: Modeling Air Movement by Convection
Unit 3 Review and Assessment			
1 day	Video-Based Project		When the Wind Blows
1 day	Review	SE, pp. 146–150; *TE, pp. 182–184	Online Unit Self Quiz
1 day	Assessment		◊ Unit 3 Test

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Unit 4: Weather and Climate

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Days	Activity Type	Print	Digital
Unit 4 Opener			
Lesson 1: Elements of Weather			
1-2 days	Big Idea	SE, pp. 151–153; *TE, pp. 200–201	
	Lesson	SE, pp. 154–161; *TE, pp. 210–213	Screens 1–10
1 day	Review	SE, pp. 162–163; *TE, p. 214	
1 day	Assessment		◊ Lesson 1 Quiz
(Optional)	Labs		† Quick Lab: Investigating the Measurement of Rainfall † Quick Lab: Classifying Features of Different Types of Clouds † Field Lab: Comparing Different Ways to Estimate Wind Speed

Lesson 2: Clouds and Cloud Formation			
1-2 days	Lesson	SE, pp. 164–173; *TE, pp. 224–228	Screens 1–18
1 day	Review	SE, pp. 174–175; *TE, p. 229	
1 day	Assessment		◊ Lesson 2 Quiz
1 day	Enrichment	S.T.E.M., SE, pp. 176–179; *TE, pp. 230–233	
(Optional)	Labs		† Quick Lab: How Does a Cloud Form? † Quick Lab: Out of Thin Air
Lesson 3: What Influences Weather?			
1-2 days	Lesson	SE, pp. 180–191; *TE, pp. 242–247	Screens 1–14
1 day	Review	SE, pp. 192–193; *TE, p. 248	
1 day	Assessment		◊ Lesson 3 Quiz
(Optional)	Labs		† Quick Lab: Analyze Weather Patterns † Quick Lab: Coastal Climate Model † Exploration Lab: Modeling El Niño

Lesson 4: Severe Weather and Weather Safety			
1-2 days	Lesson	SE, pp. 194–205; *TE, pp. 258–263	Screens 1–21
1 day	Virtual Lab		Screens 1–15
1 day	Review	SE, pp. 206–207; *TE, p. 264	
1 day	Assessment		◊ Lesson 4 Quiz
(Optional)	Labs		† Quick Lab: Create Your Own Lightning † Quick Lab: Sun Protection † Exploration Lab: Preparing for Severe Weather
Lesson 5: Weather Prediction and Weather Maps			
1-2 days	Lesson	SE, pp. 208–219; *TE, pp. 274–279	Screens 1–17
1 day	Virtual Lab		Screens 1–11
1 day	Review	SE, pp. 220–221; *TE, p. 280	
1 day	Assessment		◊ Lesson 5 Quiz
1 day	Enrichment	People in Science, SE, pp. 222–223; *TE, pp. 282–283	
(Optional)	Labs		† Quick Lab: Watching the Weather † Quick Lab: Cloud Cover

Lesson 6: Climate			
1-2 days	Lesson	SE, pp. 224–235; *TE, pp. 292–297	Screens 1–10
1 day	Review	SE, pp. 236–237; *TE, p. 298	
1 day	Assessment		◊ Lesson 6 Quiz
(Optional)	Labs		† Quick Lab: Determining Climate † Quick Lab: Factors That Affect Climate † Quick Lab: The Angles of the Sun’s Rays † Field Lab: How Land Features Affect Climate
Lesson 7: Climate Change			
1-2 days	Lesson	SE, pp. 238–251; *TE, pp. 308–314	Screens 1–15
1 day	Review	SE, pp. 252–253; *TE, p. 315	
1 day	Assessment		◊ Lesson 7 Quiz
(Optional)	Labs		† Quick Lab: Greenhouse Effect † Quick Lab: Graphing Sunspots
Unit 4 Review and Assessment			
1 day	Video-Based Project		Tornado Warning
1 day	Review	SE, pp. 256–262; *TE, pp. 316–319	Online Unit Self Quiz
1 day	Assessment		◊ Unit 4 Test

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