

***Science Fusion***  
**Module G: Space Science**  
**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: The Universe**

Pacing Guide			
SE = Student Edition Interactive Worktext			TE = Teacher Edition
Days	Activity Type	Print	Digital
<b>Unit 1 Opener</b>			
<b>Lesson 1: Structure of the Universe</b>			
1-2 days	Big Idea	SE, pp. 1–3; *TE, pp. 10–11	
	Lesson	SE, pp. 4–11; *TE, pp. 20–23	Screens 1–11
1 day	Virtual Lab		Screens 1–14
1 day	Review	SE, pp. 12–13; *TE, p. 24	
1 day	Assessment		◊ Lesson 1 Quiz
1 day	Enrichment	People in Science, SE, pp. 14–15; *TE, pp. 26–27	
(Optional)	Labs		† Quick Lab: Modeling the Expanding Universe † Quick Lab: Modeling Galaxies † Field Lab: Schoolyard Solar System

<b>Lesson 2: Stars</b>			
1-2 days	Lesson	SE, pp. 16–23; *TE, pp. 36–39	Screens 1–12
1 day	Review	SE, pp. 24–25; *TE, p. 40	
1 day	Assessment		◊ Lesson 2 Quiz
(Optional)	Labs		† Quick Lab: Modeling Star Magnitudes † Quick Lab: Using a Sky Map † Exploration Lab: Star Colors and Temperatures
<b>Lesson 3: The Life Cycle of Stars</b>			
1-2 days	Lesson	SE, pp. 26–35; *TE, pp. 50–54	Screens 1–18
1 day	Review	SE, pp. 36–37; *TE, p. 55	
1 day	Assessment		◊ Lesson 3 Quiz
(Optional)	Labs		† Quick Lab: Star Graphing † Quick Lab: The Age of Stars
<b>Unit 1 Review and Assessment</b>			
1 day	Review	SE, pp. 40–44; *TE, pp. 56–58	Online Unit Self Quiz
1 day	Assessment		◊ Unit 1 Test

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Lab Datasheets: Lesson Level Resources > Lab Datasheet

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Lesson Quiz = Lesson Level Resources > Lesson Assessment > Lesson Quiz

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## Unit 2: The Solar System

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Days	Activity Type	Print	Digital
<b>Unit 2 Opener</b>			
<b>Lesson 1: Historical Models of the Solar System</b>			
1-2 days	Big Idea	SE, pp. 45–47; *TE, pp. 72–73	
	Lesson	SE, pp. 48–55; *TE, pp. 82–85	Screens 1–10
1 day	Review	SE, pp. 56–57; *TE, p. 86	
1 day	Assessment		◊ Lesson 1 Quiz
1 day	Enrichment	Think Science, SE, pp. 58–59; *TE, pp. 88–89	
(Optional)	Labs		† Quick Lab: The Geocentric Model of the Solar System † Quick Lab: The Heliocentric Model of the Solar System † Quick Lab: Orbital Ellipses † Field Lab: Investigating Parallax

<b>Lesson 2: Gravity and the Solar System</b>			
1-2 days	Lesson	SE, pp. 60–71; *TE, pp. 98–103	Screens 1–20
1 day	Review	SE, pp. 72–73; *TE, p. 104	
1 day	Assessment		◊ Lesson 2 Quiz
(Optional)	Labs		† Quick Lab: Gravity’s Effect † Quick Lab: Gravity and the Orbit of a Planet † Exploration Lab: Weights on Different Celestial Bodies
<b>Lesson 3: The Sun</b>			
1-2 days	Lesson	SE, pp. 74–83; *TE, pp. 114–118	Screens 1–12
1 day	Review	SE, pp. 84–85; *TE, p. 119	
1 day	Assessment		◊ Lesson 3 Quiz
(Optional)	Labs		† Quick Lab: Model Solar Composition † Quick Lab: Model Solar Rotation † S.T.E.M. Lab: Create a Model of the Sun
<b>Lesson 4: The Terrestrial Planets</b>			
1-2 days	Lesson	SE, pp. 86–97; *TE, pp. 128–133	Screens 1–12
1 day	Virtual Lab		Screens 1–14
1 day	Review	SE, pp. 98–99; *TE, p. 134	
1 day	Assessment		◊ Lesson 4 Quiz
1 day	Enrichment	People in Science, SE, pp. 100–101; *TE, pp. 136–137	
(Optional)	Labs		† Quick Lab: How Do the Layers Inside Planets Form? † Quick Lab: Classifying Planets

<b>Lesson 5: The Gas Giant Planets</b>			
1-2 days	Lesson	SE, pp. 102–111; *TE, pp. 146–150	Screens 1–10
1 day	Review	SE, pp. 112–113; *TE, p. 151	
1 day	Assessment		◊ Lesson 5 Quiz
(Optional)	Labs		† Quick Lab: The Winds on Neptune † Quick Lab: Modeling Saturn’s Rings
<b>Lesson 6: Small Bodies in the Solar System</b>			
1-2 days	Lesson	SE, pp. 114–125; *TE, pp. 160–165	Screens 1–10
1 day	Virtual Lab		Screens 1–13
1 day	Review	SE, pp. 126–127; *TE, p. 166	
1 day	Assessment		◊ Lesson 6 Quiz
(Optional)	Labs		† Quick Lab: Orbits of Comets † Quick Lab: Meteorite Impacts
<b>Unit 2 Review and Assessment</b>			
1 day	Review	SE, pp. 130–136; *TE, pp. 168–171	Online Unit Self Quiz
1 day	Assessment		◊ Unit 2 Test

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### Unit 3: The Earth-Moon-Sun System

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Days	Activity Type	Print	Digital
<b>Unit 3 Opener</b>			
<b>Lesson 1: Earth's Days, Years, and Seasons</b>			
1-2 days	Big Idea	SE, pp. 137–139; *TE, pp. 182–183	
	Lesson	SE, pp. 140–147; *TE, pp. 192–195	Screens 1–21
1 day	Virtual Lab		Screens 1–13
1 day	Review	SE, pp. 148–149; *TE, p. 196	
1 day	Assessment		◇ Lesson 1 Quiz
1 day	Enrichment	Think Science, SE, pp. 150–151; *TE, pp. 198–199	
(Optional)	Labs		† Quick Lab: Earth's Rotation and Revolution † Quick Lab: Seasons Model † Field Lab: Sunlight and Temperature



<b>Lesson 2: Moon Phases and Eclipses</b>			
1-2 days	Lesson	SE, pp. 152–159; *TE, pp. 208–211	Screens 1–10
1 day	Virtual Lab		Screens 1–13
1 day	Review	SE, pp. 160–161; *TE, p. 212	
1 day	Assessment		◊ Lesson 2 Quiz
1 day	Enrichment	S.T.E.M., SE, pp. 162–165; *TE, pp. 214–217	
(Optional)	Labs		† Quick Lab: Moon Phases † Quick Lab: Lunar Eclipse † S.T.E.M. Lab: What the Moon Orbits
<b>Lesson 3: Earth’s Tides</b>			
1-2 days	Lesson	SE, pp. 166–173; *TE, pp. 226–229	Screens 1–9
1 day	Review	SE, pp. 174–175; *TE, p. 230	
1 day	Assessment		◊ Lesson 3 Quiz
(Optional)	Labs		† Quick Lab: Tides and Beaches † Quick Lab: Tidal Math
<b>Unit 3 Review and Assessment</b>			
1 day	Review	SE, pp. 178–182; *TE, pp. 232–234	Online Unit Self Quiz
1 day	Assessment		◊ Unit 3 Test

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### Unit 4: Exploring Space

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Days	Activity Type	Print	Digital
<b>Unit 4 Opener</b>			
<b>Lesson 1: Images from Space</b>			
1-2 days	Big Idea	SE, pp. 183–185; *TE, pp. 244–245	
	Lesson	SE, pp. 186–197; *TE, pp. 254–259	Screens 1–21
1 day	Virtual Lab		Screens 1–10
1 day	Review	SE, pp. 198–199; *TE, p. 260	
1 day	Assessment		◊ Lesson 1 Quiz
1 day	Enrichment	People in Science, SE, pp. 200–201; *TE, pp. 262–263	
(Optional)	Labs		† Quick Lab: Using Invisible Light † Quick Lab: A Model of the Universe † Quick Lab: Splitting White Light † S.T.E.M. Lab: Making a Telescope

<b>Lesson 2: Technology for Space Exploration</b>			
1-2 days	Lesson	SE, pp. 202–213; *TE, pp. 272–277	Screens 1–18
1 day	Virtual Lab		Screens 1–11
1 day	Review	SE, pp. 214–215; *TE, p. 278	
1 day	Assessment		◊ Lesson 2 Quiz
1 day	Enrichment	Think Science, SE, pp. 216–217; *TE, pp. 280–281	
(Optional)	Labs		† Quick Lab: Analyzing Satellite Images † Quick Lab: Design a Spacecraft † S.T.E.M. Lab: Build a Rocket
<b>Lesson 3: History of Space Exploration</b>			
1-2 days	Lesson	SE, pp. 218–229; *TE, pp. 290–295	Screens 1–15
1 day	Review	SE, pp. 230–231; *TE, p. 296	
1 day	Assessment		◊ Lesson 3 Quiz
(Optional)	Labs		† Quick Lab: Astronauts † Quick Lab: Comparing Maps
<b>Unit 4 Review and Assessment</b>			
1 day	Video-Based Project		Soft Landing
1 day	Review	SE, pp. 234–238; *TE, pp. 298–300	Online Unit Self Quiz
1 day	Assessment		◊ Unit 4 Test

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