

**Science Fusion**  
Grade 4  
Homeschool Pacing Guide

## Unit 1: Studying Science

**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 Hands-on Inquiry activities can be completed using common, household objects. However, some do require more specialized scientific equipment. Please check the materials list in the TE.

Pacing Guide			
SE = Student Edition Interactive Worktext			TE = Teacher Edition
Days	Activity Type	Print Path	Digital Path
<b>Unit 1 Opener</b>			
<b>Lesson 1: What Do Scientists Do?</b>			
2-3 days	Big Idea	SE/*TE, pp. 1–2	
	Lesson	SE/*TE, pp. 3–13	Screens 1–9
	Hands-on Inquiry		Inquiry Flip Chart, p. 2 *TE, p. 1D, 3A
1 day	Review	SE/*TE, pp. 14–16	
	Assessment		◊ Lesson 1 Quiz
<b>Lesson 2: What Skills Do Scientists Use?</b>			
1-2 days	Lesson	SE/*TE, pp. 17–23	Screens 1–8
	Hands-on Inquiry		Inquiry Flip Chart, p. 3 *TE, p. 1E, 17A
1 day	Review	SE/*TE, pp. 24–26	
	Assessment		◊ Lesson 2 Quiz

<b>Lesson 3: How Do Scientists Collect and Use Data?</b>			
1-2 days	Lesson	SE/*TE, pp. 27–37	Screens 1–8
	Hands-on Inquiry		Inquiry Flip Chart, p. 4 *TE, p. 1F, 27A
1 day	Review	SE/*TE, pp. 38–40	
	Assessment		◊ Lesson 3 Quiz
<b>Lesson 4: Why Do Scientists Compare Results?</b>			
1-2 days	Virtual Lab		Screens 1–13
	Hands-on Inquiry	SE, pp. 41–42	Inquiry Flip Chart, p. 5 *TE, p. 1G, 41A–42
1 day	Assessment		◊ Lesson 4 Quiz
(Optional)	Enrichment	People in Science, SE/*TE, pp. 43–44	People in Science
<b>Lesson 5: What Kinds of Models Do Scientists Use?</b>			
1-2 days	Lesson	SE/*TE, pp. 45–51	Screens 1–8
	Hands-on Inquiry		Inquiry Flip Chart, p. 6 *TE, p. 1H, 45A
1 day	Review	SE/*TE, pp. 52–54	
	Assessment		◊ Lesson 5 Quiz
<b>Lesson 6: How Can You Model a School? / How Can You Make a Model?</b>			
1-2 days	Virtual Lab		Screens 1–12
	Hands-on Inquiry	SE, pp. 55–56	Inquiry Flip Chart, p. 7 *TE, p. 1I, 55A–56
1 day	Assessment		◊ Lesson 6 Quiz

Unit 1 Review and Assessment			
1 day	Review	SE/*TE, pp. 57–60	Online Unit Self Quiz
1 day	Assessment		◊ Unit 1 Test

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

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

◊ Online Assessments can be assigned to students through the Online Teacher Digital Management System. After you have assigned a Quiz or 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.

Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Online Assessment)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Online Assessment)

Pdf versions of assessments and answer keys can be accessed through the Online Teacher Digital Management System.

Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Assessment Guide)

Lesson Level Resources > Lesson Assessment > Lesson Quiz Answers (Assessment Answer Key)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Assessment Guide)

Unit Level Resources > Unit Assessment > Unit Test Answers (Assessment Answer Key)

**Science Fusion**  
Grade 4  
Homeschool Pacing Guide

## Unit 2: The Engineering Process

**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.

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Pacing Guide			
SE = Student Edition Interactive Worktext			TE = Teacher Edition
Days	Activity Type	Print Path	Digital Path
<b>Unit 2 Opener</b>			
<b>Lesson 1: What Is an Engineering Design Process?</b>			
2-3 days	Big Idea	SE/*TE, pp. 61–62	
	Lesson	SE/*TE, pp. 63–71	Screens 1–12
	Hands-on Inquiry		Inquiry Flip Chart, p. 8 *TE, p. 61D, 63A
1 day	Review	SE/*TE, pp. 72–76	
	Assessment		◊ Lesson 1 Quiz
<b>Lesson 2: How Can You Design a Solution to a Problem?</b>			
1-2 days	Virtual Lab		Screens 1–14
	Hands-on Inquiry	SE, pp. 77–78	Inquiry Flip Chart, p. 9 *TE, p. 61E, 77A–78
1 day	Assessment		◊ Lesson 2 Quiz

<b>Lesson 3: What Is Technology?</b>			
1-2 days	Lesson	SE/*TE, pp. 79–89	Screens 1–14
	Hands-on Inquiry		Inquiry Flip Chart, p. 10 *TE, p. 61F, 79A
1 day	Review	SE/*TE, pp. 90–92	
	Assessment		◊ Lesson 3 Quiz
<b>Lesson 4: How Do We Use Technology?</b>			
1-2 days	Virtual Lab		Screens 1–14
	Hands-on Inquiry	SE, pp. 93–94	Inquiry Flip Chart, p. 11 *TE, p. 61G, 93A–94
1 day	Assessment		◊ Lesson 4 Quiz
(Optional)	Enrichment	People in Science, SE/*TE, pp. 95–96	People in Science
<b>Unit 2 Review and Assessment</b>			
(Optional)	Video-Based Project		It's a Bird! It's a Plane! (also referenced in Unit 11)
1 day	Review	SE/*TE, pp. 97–100	Online Unit Self Quiz
1 day	Assessment		◊ Unit 2 Test

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

◊ Online Assessments can be assigned to students through the Online Teacher Digital Management System. After you have assigned a Quiz or 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.

Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Online Assessment)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Online Assessment)

Pdf versions of assessments and answer keys can be accessed through the Online Teacher Digital Management System.

Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Assessment Guide)

Lesson Level Resources > Lesson Assessment > Lesson Quiz Answers (Assessment Answer Key)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Assessment Guide)

Unit Level Resources > Unit Assessment > Unit Test Answers (Assessment Answer Key)

**Science Fusion**  
Grade 4  
Homeschool Pacing Guide

### Unit 3: Plants and Animals

**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 Hands-on Inquiry activities can be completed using common, household objects. However, some do require more specialized scientific equipment. Please check the materials list in the TE.

Pacing Guide			
SE = Student Edition Interactive Worktext			TE = Teacher Edition
Days	Activity Type	Print Path	Digital Path
<b>Unit 3 Opener</b>			
<b>Lesson 1: What Are Some Plant Structures?</b>			
2-3 days	Big Idea	SE/*TE, pp. 101–102	
	Lesson	SE/*TE, pp. 103–111	Screens 1–15
	Hands-on Inquiry		Inquiry Flip Chart, p. 12 *TE, p. 101D, 103A
1 day	Review	SE/*TE, pp. 112–114	
	Assessment		◊ Lesson 1 Quiz
(Optional)	Enrichment	S.T.E.M., SE/*TE, pp. 115–116	Inquiry Flip Chart, p. 13 *TE, p. 101E, 116A–116B

<b>Lesson 2: How Do Plants Reproduce?</b>			
1-2 days	Lesson	SE/*TE, pp. 117–127	Screens 1–15
	Hands-on Inquiry		Inquiry Flip Chart, p. 14 *TE, p. 101E, 117A
1 day	Review	SE/*TE, pp. 128–132	
	Assessment		◊ Lesson 2 Quiz
<b>Lesson 3: How Can We Observe a Plant’s Life Cycle?</b>			
1-2 days	Virtual Lab		Screens 1–12
	Hands-on Inquiry	SE, pp. 133–134	Inquiry Flip Chart, p. 15 *TE, p. 101F, 133A–134
1 day	Assessment		◊ Lesson 3 Quiz
<b>Lesson 4: How Do Animals Reproduce?</b>			
1-2 days	Lesson	SE/*TE, pp. 135–145	Screens 1–10
	Hands-on Inquiry		Inquiry Flip Chart, p. 16 *TE, p. 101G, 135A
1 day	Review	SE/*TE, pp. 146–148	
	Assessment		◊ Lesson 4 Quiz
(Optional)	Enrichment	Careers in Science, SE/*TE, pp. 149–150	People in Science
<b>Lesson 5: How Are Living Things Adapted to Their Environment?</b>			
1-2 days	Lesson	SE/*TE, pp. 151–161	Screens 1–15
	Hands-on Inquiry		Inquiry Flip Chart, p. 17 *TE, p. 101H, 151A
1 day	Review	SE/*TE, pp. 162–164	
	Assessment		◊ Lesson 5 Quiz



<b>Lesson 6: Why Do Bird Beaks Differ?</b>			
1-2 days	Virtual Lab		Screens 1–12
	Hands-on Inquiry	SE, pp. 165–166	Inquiry Flip Chart, p. 18 *TE, p. 101I, 165A–166
1 day	Assessment		◊ Lesson 6 Quiz
<b>Unit 3 Review and Assessment</b>			
(Optional)	Video-Based Project		Alligators Up Close
1 day	Review	SE/*TE, pp. 167–170	Online Unit Self Quiz
1 day	Assessment		◊ Unit 3 Test

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

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Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Online Assessment)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Online Assessment)

Pdf versions of assessments and answer keys can be accessed through the Online Teacher Digital Management System.

Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Assessment Guide)

Lesson Level Resources > Lesson Assessment > Lesson Quiz Answers (Assessment Answer Key)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Assessment Guide)

Unit Level Resources > Unit Assessment > Unit Test Answers (Assessment Answer Key)

**Science Fusion**  
Grade 4  
Homeschool Pacing Guide

## Unit 4: Energy and Ecosystems

**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 Hands-on Inquiry activities can be completed using common, household objects. However, some do require more specialized scientific equipment. Please check the materials list in the TE.

Pacing Guide			
SE = Student Edition Interactive Worktext			TE = Teacher Edition
Days	Activity Type	Print Path	Digital Path
<b>Unit 4 Opener</b>			
<b>Lesson 1: What Are Populations, Habitats, and Niches?</b>			
2-3 days	Big Idea	SE/*TE, pp. 171–172	
	Lesson	SE/*TE, pp. 173–183	Screens 1–15
	Hands-on Inquiry		Inquiry Flip Chart, p. 19 *TE, p. 171D, 173A
1 day	Review	SE/*TE, pp. 184–188	
	Assessment		◊ Lesson 1 Quiz
<b>Lesson 2: What Are Food Chains?</b>			
1-2 days	Lesson	SE/*TE, pp. 189–199	Screens 1–9
	Hands-on Inquiry		Inquiry Flip Chart, p. 20 *TE, p. 171E, 189A
1 day	Review	SE/*TE, pp. 200–204	
	Assessment		◊ Lesson 2 Quiz

<b>Lesson 3: How Can We Model a Food Web?</b>			
1-2 days	Virtual Lab		Screens 1–16
	Hands-on Inquiry	SE, pp. 205–206	Inquiry Flip Chart, p. 21 *TE, p. 171F, 205A–206
1 day	Assessment		◊ Lesson 3 Quiz
<b>Lesson 4: What Are Natural Resources?</b>			
1-2 days	Lesson	SE/*TE, pp. 207–217	Screens 1–11
	Hands-on Inquiry		Inquiry Flip Chart, p. 22 *TE, p. 171G, 207A
1 day	Review	SE/*TE, pp. 218–220	
	Assessment		◊ Lesson 4 Quiz
<b>Lesson 5: How Do People Impact Ecosystems?</b>			
1-2 days	Lesson	SE/*TE, pp. 221–229	Screens 1–15
	Hands-on Inquiry		Inquiry Flip Chart, p. 23 *TE, p. 171H, 221A
1 day	Review	SE/*TE, pp. 230–232	
	Assessment		◊ Lesson 5 Quiz
<b>Lesson 6: How Do People Affect Their Environment?</b>			
1-2 days	Virtual Lab		Screens 1–13
	Hands-on Inquiry	SE, pp. 233–234	Inquiry Flip Chart, p. 24 *TE, p. 171I, 233A–234
1 day	Assessment		◊ Lesson 6 Quiz
(Optional)	Enrichment	People in Science, SE/*TE, pp. 235–236	People in Science
(Optional)	Enrichment	S.T.E.M., SE/*TE, pp. 237–238	Inquiry Flip Chart, p. 25 *TE, p. 171I, 238A–238B

Unit 4 Review and Assessment			
(Optional)	Video-Based Project		Rainforest Habitats
1 day	Review	SE/*TE, pp. 239–242	Online Unit Self Quiz
1 day	Assessment		◊ Unit 4 Test

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Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Online Assessment)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Online Assessment)

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Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Assessment Guide)

Lesson Level Resources > Lesson Assessment > Lesson Quiz Answers (Assessment Answer Key)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Assessment Guide)

Unit Level Resources > Unit Assessment > Unit Test Answers (Assessment Answer Key)

**Science Fusion**  
Grade 4  
Homeschool Pacing Guide

**Unit 5: Weather**

**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.

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Pacing Guide			
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Days	Activity Type	Print Path	Digital Path
<b>Unit 5 Opener</b>			
<b>Lesson 1: What Is the Water Cycle?</b>			
2-3 days	Big Idea	SE/*TE, pp. 243–244	
	Lesson	SE/*TE, pp. 245–253	Screens 1–10
	Hands-on Inquiry		Inquiry Flip Chart, p. 26 *TE, p. 243D, 245A
1 day	Review	SE/*TE, pp. 254–258	
	Assessment		◊ Lesson 1 Quiz
<b>Lesson 2: What Are Types of Weather?</b>			
1-2 days	Lesson	SE/*TE, pp. 259–269	Screens 1–12
	Hands-on Inquiry		Inquiry Flip Chart, p. 27 *TE, p. 243E, 259A
1 day	Review	SE/*TE, pp. 270–272	
	Assessment		◊ Lesson 2 Quiz

<b>Lesson 3: How Is Weather Predicted?</b>			
1-2 days	Lesson	SE/*TE, pp. 273–281	Screens 1–12
	Hands-on Inquiry		Inquiry Flip Chart, p. 28 *TE, p. 243F, 273A
1 day	Review	SE/*TE, pp. 282–284	
	Assessment		◊ Lesson 3 Quiz
(Optional)	Enrichment	S.T.E.M., SE/*TE, pp. 285–286	Inquiry Flip Chart, p. 29 *TE, p. 243G, 286A–286B
<b>Lesson 4: How Can We Observe Weather Patterns?</b>			
1-2 days	Virtual Lab		Screens 1–14
	Hands-on Inquiry	SE, pp. 287–288	Inquiry Flip Chart, p. 30 *TE, p. 243G, 287A–288
1 day	Assessment		◊ Lesson 4 Quiz
(Optional)	Enrichment	People in Science, SE/*TE, pp. 289–290	People in Science
<b>Unit 5 Review and Assessment</b>			
1 day	Review	SE/*TE, pp. 291–294	Online Unit Self Quiz
1 day	Assessment		◊ Unit 5 Test

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

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Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Online Assessment)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Online Assessment)

Pdf versions of assessments and answer keys can be accessed through the Online Teacher Digital Management System.

Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Assessment Guide)

Lesson Level Resources > Lesson Assessment > Lesson Quiz Answers (Assessment Answer Key)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Assessment Guide)

Unit Level Resources > Unit Assessment > Unit Test Answers (Assessment Answer Key)

***Science Fusion***  
**Grade 4**  
**Homeschool Pacing Guide**

**Unit 6: Earth and Space**

**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.

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Pacing Guide			
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Days	Activity Type	Print Path	Digital Path
<b>Unit 6 Opener</b>			
<b>Lesson 1: How Do the Sun, Earth, and Moon Interact?</b>			
2-3 days	Big Idea	SE/*TE, pp. 295–296	
	Lesson	SE/*TE, pp. 297–307	Screens 1–15
	Hands-on Inquiry		Inquiry Flip Chart, p. 31 *TE, p. 295D, 297A
1 day	Review	SE/*TE, pp. 308–312	
	Assessment		◊ Lesson 1 Quiz
(Optional)	Enrichment	People in Science, SE/*TE, pp. 313–314	People in Science



<b>Lesson 2: What Are Moon Phases?</b>			
1-2 days	Lesson	SE/*TE, pp. 315–321	Screens 1–9
	Hands-on Inquiry		Inquiry Flip Chart, p. 32 *TE, p. 295E, 315A
1 day	Review	SE/*TE, pp. 322–324	
	Assessment		◊ Lesson 2 Quiz
<b>Lesson 3: How Does the Moon Move Around Earth?</b>			
1-2 days	Virtual Lab		Screens 1–13
	Hands-on Inquiry	SE, pp. 325–326	Inquiry Flip Chart, p. 33 *TE, p. 295F, 325A–326
1 day	Assessment		◊ Lesson 3 Quiz
<b>Lesson 4: What Are the Planets in Our Solar System?</b>			
1-2 days	Lesson	SE/*TE, pp. 327–337	Screens 1–15
	Hands-on Inquiry		Inquiry Flip Chart, p. 34 *TE, p. 295G, 327A
1 day	Review	SE/*TE, pp. 338–340	
	Assessment		◊ Lesson 4 Quiz
(Optional)	Enrichment	S.T.E.M., SE/*TE, pp. 341–342	Inquiry Flip Chart, p. 35 *TE, p. 295H, 342A–342B
<b>Lesson 5: How Can We Model the Sun and Planets?</b>			
1-2 days	Virtual Lab		Screens 1–15
	Hands-on Inquiry	SE, pp. 343–344	Inquiry Flip Chart, p. 36 *TE, p. 295I, 343A–344
1 day	Assessment		◊ Lesson 5 Quiz

Unit 6 Review and Assessment			
1 day	Review	SE/*TE, pp. 345–348	Online Unit Self Quiz
1 day	Assessment		◊ Unit 6 Test

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

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Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Online Assessment)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Online Assessment)

Pdf versions of assessments and answer keys can be accessed through the Online Teacher Digital Management System.

Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Assessment Guide)

Lesson Level Resources > Lesson Assessment > Lesson Quiz Answers (Assessment Answer Key)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Assessment Guide)

Unit Level Resources > Unit Assessment > Unit Test Answers (Assessment Answer Key)

**Science Fusion**  
Grade 4  
Homeschool Pacing Guide

## Unit 7: Properties of Matter

**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.

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Pacing Guide			
SE = Student Edition Interactive Worktext			TE = Teacher Edition
Days	Activity Type	Print Path	Digital Path
<b>Unit 7 Opener</b>			
<b>Lesson 1: What Are Physical Properties of Matter?</b>			
2-3 days	Big Idea	SE/*TE, pp. 349–350	
	Lesson	SE/*TE, pp. 351–361	Screens 1–8
	Hands-on Inquiry		Inquiry Flip Chart, p. 37 *TE, p. 349D, 351A
1 day	Review	SE/*TE, pp. 362–366	
	Assessment		◊ Lesson 1 Quiz
<b>Lesson 2: How Are Physical Properties Observed?</b>			
1-2 days	Virtual Lab		Screens 1–14
	Hands-on Inquiry	SE, pp. 367–368	Inquiry Flip Chart, p. 38 *TE, p. 349E, 367A–368
1 day	Assessment		◊ Lesson 2 Quiz
(Optional)	Enrichment	Careers in Science, SE/*TE, pp. 369–370	People in Science

<b>Lesson 3: What Is Conservation of Mass?</b>			
1-2 days	Virtual Lab		Screens 1–14
	Hands-on Inquiry	SE, pp. 371–372	Inquiry Flip Chart, p. 39 *TE, p. 349E, 371A–372
1 day	Assessment		◊ Lesson 3 Quiz
<b>Lesson 4: What Are the States of Water?</b>			
1-2 days	Lesson	SE/*TE, pp. 373–379	Screens 1–8
	Hands-on Inquiry		Inquiry Flip Chart, p. 40 *TE, p. 349F, 373A
1 day	Review	SE/*TE, pp. 380–382	
	Assessment		◊ Lesson 4 Quiz
(Optional)	Enrichment	S.T.E.M., SE/*TE, pp. 383–384	Inquiry Flip Chart, p. 41 *TE, p. 349G, 384A–384B
<b>Unit 7 Review and Assessment</b>			
1 day	Review	SE/*TE, pp. 385–388	Online Unit Self Quiz
1 day	Assessment		◊ Unit 7 Test

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

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Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Online Assessment)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Online Assessment)

Pdf versions of assessments and answer keys can be accessed through the Online Teacher Digital Management System.

Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Assessment Guide)

Lesson Level Resources > Lesson Assessment > Lesson Quiz Answers (Assessment Answer Key)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Assessment Guide)

Unit Level Resources > Unit Assessment > Unit Test Answers (Assessment Answer Key)

***Science Fusion***  
**Grade 4**  
**Homeschool Pacing Guide**

**Unit 8: Changes in Matter**

**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 Hands-on Inquiry activities can be completed using common, household objects. However, some do require more specialized scientific equipment. Please check the materials list in the TE.

<b>Pacing Guide</b>			
SE = Student Edition Interactive Worktext			TE = Teacher Edition
Days	Activity Type	Print Path	Digital Path
<b>Unit 8 Opener</b>			
<b>Lesson 1: What Are Some Physical Changes?</b>			
2-3 days	Big Idea	SE/*TE, pp. 389–390	
	Lesson	SE/*TE, pp. 391–399	Screens 1–15
	Hands-on Inquiry		Inquiry Flip Chart, p. 42 *TE, p. 389D, 391A
1 day	Review	SE/*TE, pp. 400–402	
	Assessment		◊ Lesson 1 Quiz
<b>Lesson 2: How Can We Make a Solution?</b>			
1-2 days	Virtual Lab		Screens 1–13
	Hands-on Inquiry	SE, pp. 403–404	Inquiry Flip Chart, p. 43 *TE, p. 389E, 403A–404
1 day	Assessment		◊ Lesson 2 Quiz

<b>Lesson 3: What Are Some Chemical Changes?</b>			
1-2 days	Lesson	SE/*TE, pp. 405–413	Screens 1–15
	Hands-on Inquiry		Inquiry Flip Chart, p. 44 *TE, p. 389F, 405A
1 day	Review	SE/*TE, pp. 414–416	
	Assessment		◊ Lesson 3 Quiz
(Optional)	Enrichment	S.T.E.M., SE/*TE, pp. 417–418	Inquiry Flip Chart, p. 45 *TE, p. 389G, 418A–418B
<b>Lesson 4: How Can You Tell When a New Substance Forms?</b>			
1-2 days	Virtual Lab		Screens 1–12
	Hands-on Inquiry	SE, pp. 419–420	Inquiry Flip Chart, p. 46 *TE, p. 389G, 419A–420
1 day	Assessment		◊ Lesson 4 Quiz
(Optional)	Enrichment	People in Science, SE/*TE, pp. 421–422	People in Science
<b>Unit 8 Review and Assessment</b>			
1 day	Review	SE/*TE, pp. 423–426	Online Unit Self Quiz
1 day	Assessment		◊ Unit 8 Test

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

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

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Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Online Assessment)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Online Assessment)

Pdf versions of assessments and answer keys can be accessed through the Online Teacher Digital Management System.

Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Assessment Guide)

Lesson Level Resources > Lesson Assessment > Lesson Quiz Answers (Assessment Answer Key)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Assessment Guide)

Unit Level Resources > Unit Assessment > Unit Test Answers (Assessment Answer Key)



**Science Fusion**  
Grade 4  
Homeschool Pacing Guide

**Unit 9: Energy**

**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 Hands-on Inquiry activities can be completed using common, household objects. However, some do require more specialized scientific equipment. Please check the materials list in the TE.

Pacing Guide			
SE = Student Edition Interactive Worktext			TE = Teacher Edition
Days	Activity Type	Print Path	Digital Path
<b>Unit 9 Opener</b>			
<b>Lesson 1: What Are Some Forms of Energy?</b>			
2-3 days	Big Idea	SE/*TE, pp. 427–428	
	Lesson	SE/*TE, pp. 429–439	Screens 1–9
	Hands-on Inquiry		Inquiry Flip Chart, p. 47 *TE, p. 427D, 429A
1 day	Review	SE/*TE, pp. 440–444	
	Assessment		◊ Lesson 1 Quiz
<b>Lesson 2: Where Does Energy Come From?</b>			
1-2 days	Virtual Lab		Screens 1–14
	Hands-on Inquiry	SE, pp. 445–446	Inquiry Flip Chart, p. 48 *TE, p. 427E, 445A–446
1 day	Assessment		◊ Lesson 2 Quiz

<b>Lesson 3: What Is Heat?</b>			
1-2 days	Lesson	SE/*TE, pp. 447–453	Screens 1–8
	Hands-on Inquiry		Inquiry Flip Chart, p. 49 *TE, p. 427F, 447A
1 day	Review	SE/*TE, pp. 454–458	
	Assessment		◊ Lesson 3 Quiz
<b>Lesson 4: How Is Heat Produced?</b>			
1-2 days	Virtual Lab		Screens 1–13
	Hands-on Inquiry	SE, pp. 459–460	Inquiry Flip Chart, p. 50 *TE, p. 427G, 459A–460
1 day	Assessment		◊ Lesson 4 Quiz
(Optional)	Enrichment	Careers in Science, SE/*TE, pp. 461–462	People in Science
<b>Lesson 5: What Are Conductors and Insulators?</b>			
1-2 days	Lesson	SE/*TE, pp. 463–469	Screens 1–8
	Hands-on Inquiry		Inquiry Flip Chart, p. 51 *TE, p. 427H, 463A
1 day	Review	SE/*TE, pp. 470–472	
	Assessment		◊ Lesson 5 Quiz
<b>Lesson 6: Which Materials Are Conductors?</b>			
1-2 days	Virtual Lab		Screens 1–13
	Hands-on Inquiry	SE, pp. 473–474	Inquiry Flip Chart, p. 52 *TE, p. 427I, 473A–474
1 day	Assessment		◊ Lesson 6 Quiz
(Optional)	Enrichment	S.T.E.M., SE/*TE, pp. 475–476	Inquiry Flip Chart, p. 53 *TE, p. 427I, 476A–476B

Unit 9 Review and Assessment			
1 day	Review	SE/*TE, pp. 477–480	Online Unit Self Quiz
1 day	Assessment		◊ Unit 9 Test

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

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Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Online Assessment)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Online Assessment)

Pdf versions of assessments and answer keys can be accessed through the Online Teacher Digital Management System.

Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Assessment Guide)

Lesson Level Resources > Lesson Assessment > Lesson Quiz Answers (Assessment Answer Key)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Assessment Guide)

Unit Level Resources > Unit Assessment > Unit Test Answers (Assessment Answer Key)

**Science Fusion**  
Grade 4  
Homeschool Pacing Guide

## Unit 10: Electricity

**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 Hands-on Inquiry activities can be completed using common, household objects. However, some do require more specialized scientific equipment. Please check the materials list in the TE.

Pacing Guide			
SE = Student Edition Interactive Worktext			TE = Teacher Edition
Days	Activity Type	Print Path	Digital Path
<b>Unit 10 Opener</b>			
<b>Lesson 1: What Is Electricity?</b>			
2-3 days	Big Idea	SE/*TE, pp. 481–482	
	Lesson	SE/*TE, pp. 483–491	Screens 1–11
	Hands-on Inquiry		Inquiry Flip Chart, p. 54 *TE, p. 481D, 483A
1 day	Review	SE/*TE, pp. 492–496	
	Assessment		◊ Lesson 1 Quiz
<b>Lesson 2: How Do Electric Charges Interact?</b>			
1-2 days	Virtual Lab		Screens 1–13
	Hands-on Inquiry	SE, pp. 497–498	Inquiry Flip Chart, p. 55 *TE, p. 481E, 497A–498
1 day	Assessment		◊ Lesson 2 Quiz

<b>Lesson 3: What Is an Electric Circuit?</b>			
1-2 days	Virtual Lab		Screens 1–13
	Hands-on Inquiry	SE, pp. 499–500	Inquiry Flip Chart, p. 56 *TE, p. 481F, 499A–500
1 day	Assessment		◊ Lesson 3 Quiz
<b>Lesson 4: What Are Electric Circuits, Conductors, and Insulators?</b>			
1-2 days	Lesson	SE/*TE, pp. 501–509	Screens 1–11
	Hands-on Inquiry		Inquiry Flip Chart, p. 57 *TE, p. 481G, 501A
1 day	Review	SE/*TE, pp. 510–514	
	Assessment		◊ Lesson 4 Quiz
(Optional)	Enrichment	Careers in Science, SE/*TE, pp. 515–516	People in Science
<b>Lesson 5: How Do We Use Electricity?</b>			
1-2 days	Lesson	SE/*TE, pp. 517–525	Screens 1–12
	Hands-on Inquiry		Inquiry Flip Chart, p. 58 *TE, p. 481H, 517A
1 day	Review	SE/*TE, pp. 526–528	
	Assessment		◊ Lesson 5 Quiz
(Optional)	Enrichment	S.T.E.M., SE/*TE, pp. 529–530	Inquiry Flip Chart, p. 59 *TE, p. 481I, 530A–530B
<b>Unit 10 Review and Assessment</b>			
1 day	Review	SE/*TE, pp. 531–534	Online Unit Self Quiz
1 day	Assessment		◊ Unit 10 Test

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

◇ Online Assessments can be assigned to students through the Online Teacher Digital Management System. After you have assigned a Quiz or 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.

Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Online Assessment)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Online Assessment)

Pdf versions of assessments and answer keys can be accessed through the Online Teacher Digital Management System.

Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Assessment Guide)

Lesson Level Resources > Lesson Assessment > Lesson Quiz Answers (Assessment Answer Key)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Assessment Guide)

Unit Level Resources > Unit Assessment > Unit Test Answers (Assessment Answer Key)

**Science Fusion**  
Grade 4  
Homeschool Pacing Guide

**Unit 11: Motion**

**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 Hands-on Inquiry activities can be completed using common, household objects. However, some do require more specialized scientific equipment. Please check the materials list in the TE.

Pacing Guide			
SE = Student Edition Interactive Worktext			TE = Teacher Edition
Days	Activity Type	Print Path	Digital Path
<b>Unit 11 Opener</b>			
<b>Lesson 1: What Is Motion?</b>			
2-3 days	Big Idea	SE/*TE, pp. 535–536	
	Lesson	SE/*TE, pp. 537–547	Screens 1–9
	Hands-on Inquiry		Inquiry Flip Chart, p. 60 *TE, p. 535D, 537A
1 day	Review	SE/*TE, pp. 548–552	
	Assessment		◊ Lesson 1 Quiz

<b>Lesson 2: What Is Speed?</b>			
1-2 days	Virtual Lab		Screens 1–14
	Hands-on Inquiry	SE, pp. 553–554	Inquiry Flip Chart, p. 61 *TE, p. 535E, 553A–554
1 day	Assessment		◊ Lesson 2 Quiz
(Optional)	Enrichment	Careers in Science, SE/*TE, pp. 555–556	People in Science
(Optional)	Enrichment	S.T.E.M., SE/*TE, pp. 557–558	Inquiry Flip Chart, p. 62 *TE, p. 535E, 558A–558B
<b>Unit 11 Review and Assessment</b>			
(Optional)	Video-Based Project		It’s a Bird! It’s a Plane! (also referenced in Unit 2)
1 day	Review	SE/*TE, pp. 559–562	Online Unit Self Quiz
1 day	Assessment		◊ Unit 11 Test

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Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Online Assessment)

Unit Test:

Unit Level Resources > Unit Assessment > Unit Test (Online Assessment)

Pdf versions of assessments and answer keys can be accessed through the Online Teacher Digital Management System.

Lesson Quiz:

Lesson Level Resources > Lesson Assessment > Lesson Quiz (Assessment Guide)

Lesson Level Resources > Lesson Assessment > Lesson Quiz Answers (Assessment Answer Key)



Unit Test:

[Unit Level Resources](#) > [Unit Assessment](#) > [Unit Test \(Assessment Guide\)](#)

[Unit Level Resources](#) > [Unit Assessment](#) > [Unit Test Answers \(Assessment Answer Key\)](#)