

Science Fusion
Module I: Motion, Forces, and Energy
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: Motion and Forces

Pacing Guide			
SE = Student Edition Interactive Worktext			TE = Teacher Edition
Days	Activity Type	Print	Digital
Unit 1 Opener			
Lesson 1: Motion and Speed			
1-2 days	Big Idea	SE, pp. 1–3; *TE, pp. 12–13	
	Lesson	SE, pp. 4–15; *TE, pp. 22–27	Screens 1–10
1 day	Review	SE, pp. 16–17; *TE, p. 28	
1 day	Assessment		◊ Lesson 1 Quiz
1 day	Enrichment	Think Science, SE, pp. 18–19; *TE, pp. 30–31	
(Optional)	Labs		† Quick Lab: Investigate Changing Positions † Quick Lab: Create a Distance-Time Graph † S.T.E.M. Lab: Investigate Average Speed

Lesson 2: Acceleration			
1-2 days	Lesson	SE, pp. 20–25; *TE, pp. 40–42	Screens 1–11
1 day	Review	SE, pp. 26–27; *TE, p. 43	
1 day	Assessment		◊ Lesson 2 Quiz
(Optional)	Labs		† Quick Lab: Acceleration and Slope † Quick Lab: Mass and Acceleration † S.T.E.M. Lab: Investigate Acceleration
Lesson 3: Forces			
1-2 days	Lesson	SE, pp. 28–39; *TE, pp. 52–57	Screens 1–15
1 day	Virtual Lab		Screens 1–16
1 day	Review	SE, pp. 40–41; *TE, p. 58	
1 day	Assessment		◊ Lesson 3 Quiz
(Optional)	Labs		† Quick Lab: Net Force † Quick Lab: First Law of Skateboarding † S.T.E.M. Lab: Newton’s Laws of Motion

Lesson 4: Gravity and Motion			
1-2 days	Lesson	SE, pp. 42–49; *TE, pp. 68–71	Screens 1–11
1 day	Virtual Lab		Screens 1–16
1 day	Review	SE, pp. 50–51; *TE, p. 72	
1 day	Assessment		◊ Lesson 4 Quiz
1 day	Enrichment	People in Science, SE, pp. 52–53; *TE, pp. 74–75	
(Optional)	Labs		† Quick Lab: Falling Water † Quick Lab: Gravity and Distance † Quick Lab: Free Fall Distances
Lesson 5: Fluids and Pressure			
1-2 days	Lesson	SE, pp. 54–65; *TE, pp. 84–89	Screens 1–18
1 day	Review	SE, pp. 66–67; *TE, p. 90	
1 day	Assessment		◊ Lesson 5 Quiz
1 day	Enrichment	S.T.E.M., SE, pp. 62–65; *TE, pp. 88–91	
(Optional)	Labs		† Quick Lab: Finding the Buoyant Force † Quick Lab: Pressure Differences † Field Lab: Pressure in Fluids
Unit 1 Review and Assessment			
1 day	Video-Based Project		Animals in Motion
1 day	Review	SE, pp. 70–74; *TE, pp. 92–94	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

† Lab Manuals can be accessed through the Online Teacher Digital Management System at the Lesson Level.

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

† Lab Datasheets can be accessed through the online Student Edition at the lesson level.

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: Work, Energy, and Machines

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Days	Activity Type	Print	Digital
Unit 2 Opener			
Lesson 1: Work, Energy, and Power			
1-2 days	Big Idea	SE, pp. 75–77; *TE, pp. 104–105	
	Lesson	SE, pp. 78–85; *TE, pp. 114–117	Screens 1–14
1 day	Review	SE, pp. 86–87; *TE, p. 118	
1 day	Assessment		◊ Lesson 1 Quiz
(Optional)	Labs		† Quick Lab: Investigating Work

Lesson 2: Kinetic and Potential Energy			
1-2 days	Lesson	SE, pp. 88–95; *TE, pp. 128–131	Screens 1–15
1 day	Virtual Lab		Screens 1–14
1 day	Review	SE, pp. 96–97; *TE, p. 132	
1 day	Assessment		◊ Lesson 2 Quiz
1 day	Enrichment	S.T.E.M., SE, pp. 98–101; *TE, pp. 134–137	
(Optional)	Labs		† Quick Lab: Investigate Potential Energy † Quick Lab: Identify Potential and Kinetic Energy † Exploration Lab: Mechanical Energy
Lesson 3: Machines			
1-2 days	Lesson	SE, pp. 102–113; *TE, pp. 146–151	Screens 1–15
1 day	Review	SE, pp. 114–115; *TE, p. 152	
1 day	Assessment		◊ Lesson 3 Quiz
(Optional)	Labs		† Quick Lab: Mechanical Efficiency † Quick Lab: Investigate Pulleys † S.T.E.M. Lab: Compound Machines
Unit 2 Review and Assessment			
1 day	Video-Based Project		Take the Long Way
1 day	Review	SE, pp. 118–122; *TE, pp. 154–156	Online Unit Self Quiz
1 day	Assessment		◊ Unit 2 Test

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Unit 3: Electricity and Magnetism

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Days	Activity Type	Print	Digital
Unit 3 Opener			
Lesson 1: Electric Charge and Static Electricity			
1-2 days	Big Idea	SE, pp. 123–125; *TE, pp. 170–171	
	Lesson	SE, pp. 126–133; *TE, pp. 180–183	Screens 1–16
1 day	Virtual Lab		Screens 1–13
1 day	Review	SE, pp. 134–135; *TE, p. 184	
1 day	Assessment		◇ Lesson 1 Quiz
(Optional)	Labs		† Quick Lab: Making a Static Detector † Quick Lab: Investigate Conductors and Insulators

Lesson 2: Electric Current			
1-2 days	Lesson	SE, pp. 136–141; *TE, pp. 194–196	Screens 1–12
1 day	Review	SE, pp. 142–143; *TE, p. 197	
1 day	Assessment		◊ Lesson 2 Quiz
(Optional)	Labs		† Quick Lab: Investigate Electric Current † Quick Lab: Lemon Battery † S.T.E.M. Lab: Voltage, Current, and Resistance
Lesson 3: Electric Circuits			
1-2 days	Lesson	SE, pp. 144–153; *TE, pp. 206–210	Screens 1–15
1 day	Virtual Lab		Screens 1–13
1 day	Review	SE, pp. 154–155; *TE, p. 211	
1 day	Assessment		◊ Lesson 3 Quiz
(Optional)	Labs		† Quick Lab: Compare Parallel and Series Circuits † Quick Lab: Compare Materials for Use in Fuses † Exploration Lab: Model the Electric Circuits of a Room
Lesson 4: Magnets and Magnetism			
1-2 days	Lesson	SE, pp. 156–163; *TE, pp. 220–223	Screens 1–18
1 day	Review	SE, pp. 164–165; *TE, p. 224	
1 day	Assessment		◊ Lesson 4 Quiz
1 day	Enrichment	S.T.E.M., SE, pp. 166–169; *TE, pp. 226–229	
(Optional)	Labs		† Quick Lab: Making Magnets † Quick Lab: Studying Magnetism

Lesson 5: Electromagnetism			
1-2 days	Lesson	SE, pp. 170–181; *TE, pp. 238–243	Screens 1–18
1 day	Review	SE, pp. 182–183; *TE, p. 244	
1 day	Assessment		◊ Lesson 5 Quiz
(Optional)	Labs		† Quick Lab: Building an Electromagnet † Quick Lab: Making and Electric Generator † S.T.E.M. Lab: Building a Speaker
Lesson 6: Electronic Technology			
1-2 days	Lesson	SE, pp. 184–191; *TE, pp. 254–257	Screens 1–16
1 day	Review	SE, pp. 192–193; *TE, p. 258	
1 day	Assessment		◊ Lesson 6 Quiz
(Optional)	Labs		† Quick Lab: The Speed of a Simple Computer † Quick Lab: Investigate Satellite Imaging
Unit 3 Review and Assessment			
1 day	Review	SE, pp. 196–202; *TE, pp. 260–263	Online Unit Self Quiz
1 day	Assessment		◊ Unit 3 Test

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