



Correlations to the NGSS

Chapter Number and Lesson	Grades	Discipline	Disciplinary Core Ideas	Crosscutting Concepts
Chapter 6, Freezing & Melting	2	Physical Science	PS1.A: Structure and Properties of Matter/PS1.B: Chemical Reactions	Energy and Matter
Chapter 7, Float Your Boat	3	Physical Science/ Engineering Design	PS2.A Forces and Motion/PS2.B Types of Interactions/ETS1.C Optimizing the Design Solution	Cause and Effect
Chapter 8, The Wind Blew	4	Physical Science	PS3.C Relationship Between Energy and Forces	Energy and Matter
Chapter 9, Harnessing the Wind	4	Physical Science/ Earth and Space Sciences	PS3.A Definitions of Energy/PS3.B Conservation of Energy and Energy Transfer/ESS3.A Natural Resources	Energy and Matter
Chapter 10, Sounds All Around	1	Physical Science	PS4.A Wave Properties	Cause and Effect
Chapter 11, Do You Know Which Ones Will Grow?	K	Life Science	LS1.C Organization for Matter and Energy Flow in Organisms	Patterns
Chapter 12, Seeds on the Move	2	Life Science	LS2.A Interdependent Relationships in Ecosystems	Cause and Effect
Chapter 13, Unbeatable Beaks	1	Life Science	LS1.A Structure and Function	Structure and Function
Chapter 14, Ducks Don't Get Wet	4	Life Science	LS1.A Structure and Function	Structure and Function
Chapter 15, Amazing Caterpillars	1, 3	Life Science	LS1.B Growth and Development of Organisms	Patterns
Chapter 16, Fossils Tell of Long Ago	3,4	Life Science/ Earth and Space Sciences	LS4.A Evidence of Common Ancestry and Diversity/ESS1.C The History of Planet Earth	Scale, Proportion, and Quantity
Chapter 17, Reduce, Reuse, Recycle	K	Earth and Space Sciences	ESS3.C Human Impact on Earth Systems	Systems and System Models

* Denotes a Science and Engineering Practice

**Denotes a Connection to Engineering, Technology and Applications of Science

(continued)

Chapter Number and Lesson	Grades	Discipline	Disciplinary Core Ideas	Crosscutting Concepts
Chapter 18, What Will the Weather Be?	3	Earth and Space Sciences	ESS2.D Weather and Climate	Patterns
Chapter 19, Sunsets and Shadows	5	Earth and Space Sciences	ESS1.B Earth and the Solar System	Patterns
Chapter 20, Problem Solvers	3, 4, 5	Engineering Design	ETS1.A Defining and Delimiting an Engineering Problem/ETS1.B Developing Possible Solutions/ETS1.C Optimizing the Design Solution	Influence of Engineering, Technology, and Science on Society and the Natural World**

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