

Correlation to Show Compatibility of *Glencoe Physical Science* with the Next Generation Science Standards Disciplinary Core Ideas

Glencoe Physical Science provides optimal flexibility for the initial implementation of the Next Generation Science Standards (NGSS) into your curriculum. This correlation to the Disciplinary Core Ideas (DCIs) will help guide and inform your curriculum decisions as you transition the NGSS into your science instruction.

Lesson Title	Disciplinary Core Ideas	Pages
Chapter 1 • The Nature of Science		
1 The Methods of Science		6-13
2 Standards of Measurement		14-20
3 Communicating with Graphs		21-25
4 Science and Technology		26-41
Chapter 2 • Motion		
1 Describing Motion	This topic is a prerequisite for PS2.A.	44-50
2 Velocity and Momentum	PS2.A	51-55
3 Acceleration	PS2.A	56-69
Chapter 3 • Forces and Newton's Laws		
1 Forces	PS2.A, PS2.B	72-79
2 Newton's Laws of Motion	PS2.A	80-85
3 Using Newton's Laws	PS2.A	86-101
Chapter 4 • Work and Energy		
1 Work and Machines	This topic is an extension of PS2.A.	106-113
2 Describing Energy	PS3.A, PS3.B	114-119
3 Conservation of Energy	PS3.A, PS3.B, PS3.D	120-135
Chapter 5 • Thermal Energy		
1 Temperature, Thermal Energy, and Heat	PS3.A	138-143
2 Conduction, Convection, and Radiation	PS3.A, PS3.B	144-151
3 Using Thermal Energy	PS3.A, PS3.B, PS3.D	152-167

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Chapter 6 • Electricity		
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3 More Complex Circuits	This topic is an extension of PS3.A.	185-199
Chapter 7 • Magnetism and Its Uses		
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3 Producing Electric Current	PS2.B, PS3.A, PS3.C	216-231
Chapter 8 • Energy Sources and the Environment		
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2 Nuclear Energy	PS1.C, ESS3.A, ESS3.C	241-247
3 Renewable Energy Sources	PS4.B, ESS3.A, ESS3.C	248-254
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Chapter 9 • Introduction to Waves		
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3 The Behavior of Waves	PS4.A, PS4.C	286-303
Chapter 10 • Sound		
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2 Properties of Sound	PS4.A	
3 Music	PS4.A	
4 Using Sound	PS4.A, PS4.C	

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2 The Electromagnetic Spectrum	PS4.B, PS4.C	345-351
3 Radio Communication	PS4.A, PS4.B, PS4.C	352-365

Chapter 12 • Light

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2 Light and Color	This topic is an extension of PS4.A.	373-377
3 Producing Light	This topic is an extension of PS4.A.	378-383
4 Using Light	This topic is an extension of PS4.A.	384-397

Chapter 13 • Mirrors and Lenses

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3 Optical Instruments	PS4.C	415-427

Chapter 14 • Solids, Liquids, and Gases

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Chapter 15 • Classification of Matter

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2 Masses of Atoms	PS1.A	494-497
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