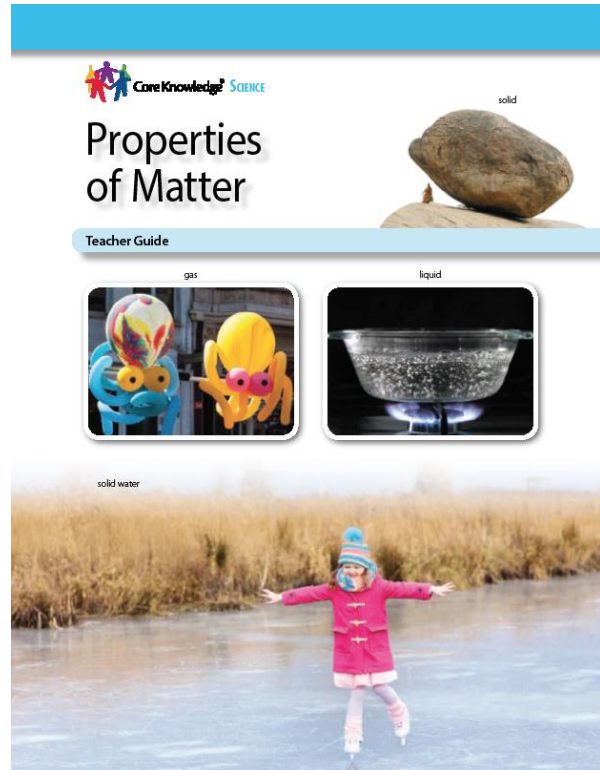


Properties of Matter

Click on each lesson to access its online resources. Page numbers refer to pages in the Teacher Guide. Some links provide access to files created by the Core Knowledge Foundation, including PDF documents that you can download and view with the appropriate software (such as [Adobe Reader](#)).

	About This Unit
Unit Opener	Unit Opener
Lesson 1	Segment 1
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Lesson 2	Segment 1
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Lesson 3	Segment 1
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Lesson 4	Segment 1
	Segment 2
	Segment 3
Unit Capstone	Unit Capstone
Unit Supplement	Unit Supplement
	Teacher Resources



About This Unit

Page	Resource Links
2	<p>Note to Teachers and Curriculum Planners</p> <ul style="list-style-type: none"> The learning progressions of Disciplinary Core Ideas PS1.A and PS1.B offers guidance regarding the scope and sequence of learning about The structures and properties of matter as well as chemical reacts in the elementary grades and beyond. Learn more about this core idea and its related content by reading the corresponding section of A Framework for K-12 Science Education. <p>See also the Teachers Resources section of this guide.</p> <p>To see an overview of the entire Core Knowledge Science program, visit link]</p>
3	<p>This unit has been informed by the following Next Generation Science Standards (NGSS) Performance Expectations:</p> <p>Topic—Properties of Matter</p> <ul style="list-style-type: none"> 2-PS1-1 2-PS1-2 2-PS1-3 2-PS1-4
9	<p>CKSci Online Resources</p> <p>Recommended Science Trade Books</p>
12	<p>NGSS References</p> <ul style="list-style-type: none"> DCI CCC SEP
13	<ul style="list-style-type: none"> Resources for Effective and Safe Classroom Activities Materials Supply List: Grade 2 Unit 1 Properties of Matter

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Unit Opener

Page	Resource Links
21	Disciplinary Core Idea: <i>PS1.A Structure and Properties of Matter</i> <ul style="list-style-type: none"> From the Framework: Pages 191-192
	Science and Engineering Practice: <i>3 Planning and Carrying Out Investigations</i> <ul style="list-style-type: none"> From the Framework: Pages 74-77
	Crosscutting Concept: <i>2 Cause and Effect</i> <ul style="list-style-type: none"> From the Framework: Pages 87-89

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Lesson 1 Opener

Page	Resource Links
29	NGSS References <ul style="list-style-type: none"> • DCI • CCC • SEP

Lesson 1, Segment 1

Page	Resource Links
30	Performance Expectation: <ul style="list-style-type: none"> • 2-PS1-1 Evidence Statements for 2-PS1-1
	Disciplinary Core Idea: PS1.A <i>Structure and Properties of Matter</i> <ul style="list-style-type: none"> • From the Framework: Pages 106–109
	Science and Engineering Practice: <i>3 Planning and Carrying Out Investigations</i> <ul style="list-style-type: none"> • From the Framework: Pages 59–61
	Crosscutting Concept: <i>1 Patterns</i> <ul style="list-style-type: none"> • From the Framework: Pages 85–87

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Lesson 1, Segment 2

Page	Resource Links
36	Performance Expectation: <ul style="list-style-type: none"> • 2-PS1-1 Evidence Statements for 2-PS1-1
	Disciplinary Core Idea: PS1.A <i>Structure and Properties of Matter</i> <ul style="list-style-type: none"> • From the Framework: Pages 106–109
	Science and Engineering Practice: <i>3 Planning and Carrying Out Investigations</i> <ul style="list-style-type: none"> • From the Framework: Pages 59–61
	Crosscutting Concept: <i>1 Patterns</i> <ul style="list-style-type: none"> • From the Framework: Pages 85–87

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Lesson 1, Segment 3

Page	Resource Links
57	Performance Expectation: <ul style="list-style-type: none"> • 2-PS1-1 Evidence Statements for 2-PS1-1
	Disciplinary Core Idea: PS1.A <i>Structure and Properties of Matter</i> <ul style="list-style-type: none"> • From the Framework: Pages 106–109
	Science and Engineering Practice: <i>3 Planning and Carrying Out Investigations</i> <ul style="list-style-type: none"> • From the Framework: Pages 59–61
	Crosscutting Concept: <i>1 Patterns</i> <ul style="list-style-type: none"> • From the Framework: Pages 85–87

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Lesson 1, Segment 4

Page	Resource Links
69	<p>Performance Expectation:</p> <ul style="list-style-type: none"> • 2-PS1-1 Evidence Statements for 2-PS1-1 <p>Disciplinary Core Idea: PS1.A <i>Structure and Properties of Matter</i></p> <ul style="list-style-type: none"> • From the Framework: Pages 106–109 <p>Science and Engineering Practice: <i>3 Planning and Carrying Out Investigations</i></p> <ul style="list-style-type: none"> • From the Framework: Pages 59–61 <p>Crosscutting Concept: <i>1 Patterns</i></p> <ul style="list-style-type: none"> • From the Framework: Pages 85–87
71	[VIDEO] Solid or liquid?

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Lesson 1, Segment 5

Page	Resource Links
80	Performance Expectation: <ul style="list-style-type: none"> • 2-PS1-1 Evidence Statements for 2-PS1-1
	Disciplinary Core Idea: PS1.A <i>Structure and Properties of Matter</i> <ul style="list-style-type: none"> • From the Framework: Pages 106–109
	Science and Engineering Practice: <i>3 Planning and Carrying Out Investigations</i> <ul style="list-style-type: none"> • From the Framework: Pages 59–61
	Crosscutting Concept: <i>1 Patterns</i> <ul style="list-style-type: none"> • From the Framework: Pages 85–87

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Lesson 2 Opener

Page	Resource Links
88	NGSS References <ul style="list-style-type: none"> • DCI • CCC • SEP

Lesson 2, Segment 1

Page	Resource Links
89	Performance Expectation: <ul style="list-style-type: none"> • 2-PS1-4 Evidence Statements for 2-PS1-4
	Disciplinary Core Idea: PS1.B <i>Chemical Reactions</i> <ul style="list-style-type: none"> • From the Framework: Pages 109–111
	Science and Engineering Practices: <i>7 Engaging in Argument from Evidence</i> <ul style="list-style-type: none"> • From the Framework: Bottom of pages 71–74
	Crosscutting Concept: <i>2 Cause and Effect</i> <ul style="list-style-type: none"> • From the Framework: Pages 87–89

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Lesson 2, Segment 2

Page	Resource Links
101	Performance Expectation: <ul style="list-style-type: none"> • 2-PS1-4 Evidence Statements for 2-PS1-4
	Disciplinary Core Idea: PS1.B <i>Chemical Reactions</i> <ul style="list-style-type: none"> • From the Framework: Pages 109–111
	Science and Engineering Practices: <i>7 Engaging in Argument from Evidence</i> <ul style="list-style-type: none"> • From the Framework: Bottom of pages 71–74
	Crosscutting Concept: <i>2 Cause and Effect</i> <ul style="list-style-type: none"> • From the Framework: Pages 87–89

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Lesson 2, Segment 3

Page	Resource Links
107	Performance Expectation: <ul style="list-style-type: none"> • 2-PS1-4 Evidence Statements for 2-PS1-4
	Disciplinary Core Idea: PS1.B <i>Chemical Reactions</i> <ul style="list-style-type: none"> • From the Framework: Pages 109–111
	Science and Engineering Practices: <i>7 Engaging in Argument from Evidence</i> <ul style="list-style-type: none"> • From the Framework: Bottom of pages 71–74
	Crosscutting Concept: <i>2 Cause and Effect</i> <ul style="list-style-type: none"> • From the Framework: Pages 87–89
114	[VIDEO] Can you untoast toast?

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Lesson 3 Opener

Page	Resource Links
125	NGSS References <ul style="list-style-type: none"> • DCI • CCC • SEP

Lesson 3, Segment 1

Page	Resource Links
126	Performance Expectation: <ul style="list-style-type: none"> • 2-PS1-2 Evidence Statements for 2-PS1-2
	Disciplinary Core Idea: PS1.A <i>Structure and Properties of Matter</i> <ul style="list-style-type: none"> • From the Framework: Pages 106–109
	Science and Engineering Practices: <i>4 Analyzing and Interpreting Data</i> <ul style="list-style-type: none"> • From the Framework: Pages 61–63
	Crosscutting Concept: <i>2 Cause and Effect</i> <ul style="list-style-type: none"> • From the Framework: Pages 87–89

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Lesson 3, Segment 2

Page	Resource Links
136	Performance Expectation: <ul style="list-style-type: none"> • 2-PS1-2 Evidence Statements for 2-PS1-2
	Disciplinary Core Idea: PS1.A <i>Structure and Properties of Matter</i> <ul style="list-style-type: none"> • From the Framework: Pages 106–109
	Science and Engineering Practices: 4 <i>Analyzing and Interpreting Data</i> <ul style="list-style-type: none"> • From the Framework: Pages 61–63
	Crosscutting Concept: 2 <i>Cause and Effect</i> <ul style="list-style-type: none"> • From the Framework: Pages 87–89

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Lesson 4 Opener

Page	Resource Links
153	NGSS References <ul style="list-style-type: none"> • DCI • CCC • SEP

Lesson 4, Segment 1

Page	Resource Links
154	Performance Expectation: <ul style="list-style-type: none"> • 2-PS1-3 Evidence Statements for 2-PS1-3
	Disciplinary Core Idea: PS1.A <i>Structure and Properties of Matter</i> <ul style="list-style-type: none"> • From the Framework: Pages 106–109
	Science and Engineering Practices: <i>6 Constructing Explanations and Designing Solutions</i> <ul style="list-style-type: none"> • From the Framework: Pages 67–71
	Crosscutting Concept: <i>5 Energy and Matter</i> <ul style="list-style-type: none"> • From the Framework: Pages 94–96

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Lesson 4, Segment 2

Page	Resource Links
160	Performance Expectation: <ul style="list-style-type: none"> • 2-PS1-3 Evidence Statements for 2-PS1-3
	Disciplinary Core Idea: PS1.A <i>Structure and Properties of Matter</i> <ul style="list-style-type: none"> • From the Framework: Pages 106–109
	Science and Engineering Practices: 6 <i>Constructing Explanations and Designing Solutions</i> <ul style="list-style-type: none"> • From the Framework: Pages 67–71
	Crosscutting Concept: 5 <i>Energy and Matter</i> <ul style="list-style-type: none"> • From the Framework: Pages 94–96
172	Video: The human body is made up of parts.

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Lesson 4, Segment 3

Page	Resource Links
174	Performance Expectation: <ul style="list-style-type: none"> • 2-PS1-3 Evidence Statements for 2-PS1-3
	Disciplinary Core Idea: PS1.A <i>Structure and Properties of Matter</i> <ul style="list-style-type: none"> • From the Framework: Pages 106–109
	Science and Engineering Practices: 6 <i>Constructing Explanations and Designing Solutions</i> <ul style="list-style-type: none"> • From the Framework: Pages 67–71
	Crosscutting Concept: 5 <i>Energy and Matter</i> <ul style="list-style-type: none"> • From the Framework: Pages 94–96

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 [Unit Capstone →](#)

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Unit Capstone

Page	Resource Links
179	<p>Performance Expectation:</p> <ul style="list-style-type: none"> • 2-PS1-1 Evidence Statements for 2-PS1-1 • 2-PS1-2 Evidence Statements for 2-PS1-2 • 2-PS1-3 Evidence Statements for 2-PS1-3 • 2-PS1-4 Evidence Statements for 2-PS1-4
	<p>Disciplinary Core Idea: <i>PS1.A Structure and Properties of Matter</i></p> <ul style="list-style-type: none"> • From the Framework: Pages 106–109 <p><i>PS1.B Chemical Reactions</i></p> <ul style="list-style-type: none"> • From the Framework: Pages 109–111
	<p>Science and Engineering Practices:</p> <p><i>3 Planning and Carrying Out Investigations</i></p> <ul style="list-style-type: none"> • From the Framework: Pages 74–77 <p><i>4 Analyzing and Interpreting Data</i></p> <ul style="list-style-type: none"> • From the Framework: Pages 61–63 <p><i>6 Constructing Explanations and Designing Solutions</i></p> <ul style="list-style-type: none"> • From the Framework: Pages 67–71 <p><i>7 Engaging in Argument from Evidence</i></p> <ul style="list-style-type: none"> • From the Framework: Bottom of pages 71–74

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	<p>Crosscutting Concept:</p> <p><i>1 Patterns</i></p> <ul style="list-style-type: none">• From the Framework: Pages 85–87 <p><i>2 Cause and Effect</i></p> <ul style="list-style-type: none">• From the Framework: Pages 87–89 <p><i>5 Energy and Matter</i></p> <ul style="list-style-type: none">• From the Framework: Pages 94–96
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[Unit Supplement](#) →

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Unit Supplement

Page	Resource Links
185	Science and Engineering Practices: <i>1 Asking Questions and Defining Problems</i> <ul style="list-style-type: none"> From the Framework: Pages 54–56
	Understandings about the Nature of Science <ul style="list-style-type: none"> Scientific Investigations Use a Variety of Methods Scientific Knowledge Is Open to Revision in Light of New Evidence Science Is a Human Endeavor
	Crosscutting Concept: <i>1 Patterns</i> <ul style="list-style-type: none"> From the Framework: Pages 85–87
	Connections to Engineering, Technology and Applications of Science <ul style="list-style-type: none"> Influence of Engineering, Technology, and Science on Society and the Natural World

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[Teacher Resources →](#)

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Teacher Resources

Page	Resource Links
13	Resources for Effective & Safe Classroom Activities
15	Materials Supply List: Grade 2 Unit 1 <i>Properties of Matter</i>
225	Activity Pages Answer Key
164	Safety in the Science Classroom: <ul style="list-style-type: none"> • NSTA Safety Resources • Safety Resources for Elementary Teachers
	Teacher Guide Appendices: <ul style="list-style-type: none"> • Appendix A – Glossary • Appendix B – Safety for Activities • Appendix C – Strategies for Acquiring Materials • Appendix D – Advance Preparation • Appendix E – Unexpected Activity Results

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