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| **SUGGESTED PACING** |
| **STRAND: PHYSICAL SCIENCE (PS)****Topic: Matter and Forms of Energy** This topic focuses on the relationship between matter and energy. Matter has specific properties and is found in all substances on Earth. Heat is a familiar form of energy that can change the states of matter. **Content Statements:*** Matter exists in different states, each of which has different properties.
* The most common states of matter are solids, liquids and gases.
* Shape and compressibility are properties that can distinguish between the states of matter.
* One way to change matter from one state to another is by heating or cooling.
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| **PRINT RESOURCES** | **DIGITAL RESOURCES** |
| *ScienceFusion** Unit 5, All Lessons
* Unit 5, TE pages 207A-260A
* Unit 5, Inquiry Flip Chart page 30-35
* Science and Engineering Leveled Readers:
	+ On-Level/Below Level: *How Can You Describe Matter??*
	+ Above Level: *Engineering Materials*
* Unit 6, TE pages 303A-314A
* Unit 6, Inquiry Flip Chart page 42
 | *ScienceFusion** Unit 5, Lesson 2 Digital Lesson with Virtual Lab
* Unit 5, Lesson 3 Digital Lesson with Virtual Lab
* Unit 5, Lesson 4 Digital Lesson with Virtual Lab
* Unit 5, Lesson 5 Digital Lesson
* Unit 5, Lesson 6 Digital Lesson
* Unit 6, Lesson 5 Digital Lesson
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| **SCIENCE AND ACADEMIC VOCABULARY** |
| Chemical Change, Condensation, Dissolve, Evaporation, Gas, Liquid, Mass, Matter, Mixture, Physical Change, Physical Property, Solid, Solution, Temperature, Volume |
| **DIFFERENTIATION** | **FIELD EXPERIENCE CONNECTIONS** |
| Basic (Extra Support)* Unit 5 Response to Intervention - TE page 205K
* Unit 5 TE pages 209, 211, 214, 231, 233, 242, 243, 247
* Unit 6 Response to Intervention - TE page 261K
* Unit 6 TE pages 308, 311

Advanced (Enrichment)* Unit 5 TE pages 209, 211, 214, 231, 233, 242, 243, 247
* Unit 5 STEM - Flipchart page 36, TE pages 205I, 255-256B
* Unit 6 TE pages 308, 311

English Language Learners* Unit 5 TE pages 205L-205M, 208, 215, 216, 230, 236, 244, 245, 248, 251
* Unit 6 TE pages 261L-261M, 306, 310
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| **INQUIRY SKILLS** |
| * Classify
* Communicate
* Compare
* Draw Conclusions
* Gather and Record Data
 | * Hypothesize
* Identify and Control Variables
* Infer
* Measure
 | * Observe
* Plan and Conduct a Simple Investigation
* Predict
* Use Numbers
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| **HANDS-ON INQUIRY AND APPLICATION** |
| * “Will It Float or Sink?” (Flipchart page 30, TE pages 205D, 207A)
* “Sort Some Matter” (Flipchart page 30, TE pages 205D, 207A)
* “How Can We Measure Magnetism?” (Flipchart page 31, TE pages 205E, 221A-222)
* “What Physical Properties Can We Observe?” (Flipchart page 32, TE pages 205F, 225A-226)
* “How Is Temperature Measured?” (Flipchart page 33, TE pages 205 G, 227A-228)
* “Temperature Takes a Dive” (Flipchart page 34, TE pages 205G, 229A)
* “The Shape of Different States” (Flipchart page 34, TE pages 205H, 229A)
* “Break It Up” (Flipchart page 35, TE pages 205H, 241A)
* “Coming Apart: (Flipchart page 35, TE pages 205I, 241A)
* “Heat Race” (Flipchart page 42, TE pages 261H, 303A)
* “Where There’s Light…” (Flipchart page 42, TE pages 261H, 303A)
 | *Differentiated Inquiry* * Unit 5, TE page 222A
	+ Check Your Results (Easy)
	+ Test and Measure the Magnetism of an Electromagnet (Average)
	+ Measure Magnetism a Different Way (Average)
	+ Increase the Strength of an Electromagnet (Challenging)
* Unit 5, TE page 226A
	+ Compare Rocks (Easy)
	+ Find the Mass of 50mL of Water (Average)
	+ Find the Mass and Volume of Large Objects (Average)
	+ Find the Mass and Volume of Salt (Challenging)
* Unit 5, TE page 228A
	+ Compare Temperatures of School Water Fountains (Easy)
	+ Find Daily Temperatures (Easy)
	+ Find How Water and Ice Affect the Temperature of Rice (Average)
	+ Find the Temperature at Which Chocolate Melts (Challenging)
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| **ASSESSMENTS/PROGRESS MONITORING** | **ASSESSMENT GUIDE** |
| * Sum it Up
	+ Unit 5, Lesson 1 - SE page 218, TE page 218
	+ Unit 5, Lesson 5 - SE page 238, TE page 238
	+ Unit 5, Lesson 6 - SE page 252, TE page 252
	+ Unit 6, Lesson 5 - SE page 312, TE page 312
* Brain Check and Apply Concepts
	+ Unit 5, Lesson 1 - SE pages 219-220, TE pages 219-220
	+ Unit 5, Lesson 5 - SE pages 239-240, TE pages 239-240
	+ Unit 5, Lesson 6 - SE pages 253-254, TE pages 253-254
	+ Unit 6, Lesson 5 - SE pages 313-314, TE pages 313-314
* Unit 5 Review - TE pages 257A-260
* Unit 5 Short Option Performance Assessment - TE page 259
 | * Lesson Quiz
	+ Unit 5, Lesson 1 - page AG 50
	+ Unit 5, Lesson 2 - page AG 51
	+ Unit 5, Lesson 3 - page AG 52
	+ Unit 5, Lesson 4 - page AG 53
	+ Unit 5, Lesson 5 - page AG 54
	+ Unit 5, Lesson 6 - page AG 55
	+ Unit 6, Lesson 5 - page AG 67
* Unit 5 Test and Performance Task with Long Option Rubric - pages AG 56-AG 62
 |
| **ACADEMIC CONNECTIONS TO OTHER DISCIPLINES: ELA**  |
| Journeys* Writing Connection - TE page 217
* Make Connections - TE page 220A
	+ Writing Connection - Write a How-To Pamphlet (Average)
* Writing Connection - TE page 223
* Writing Connection - TE page 237
* Make Connections - TE page 240A
	+ Language Arts Connection - Design a Set of Flash Cards (Easy)
* Writing Connection - TE page 250
* Make Connections - TE page 254A
	+ Writing Connection - Write an Interview (Challenging)
* Writing Connection - TE page 309
* Make Connections - TE page 314A
	+ Language Arts Connection - Investigate “Hot” Expressions (Average)

*Journeys Connections*Lesson 27* Whole Group - Anchor Text - The Power of Magnets (T67)
* Whole Group - Photo Essay - Electromagnets & You (T71)
 |
| **ACADEMIC CONNECTIONS TO OTHER DISCIPLINES: MATH**  |
| Math Expressions* Math Connection - TE page 213
* *Math* Expressions *Connections:*
	+ Unit 3 Lesson 2: Customary Units of Liquid Volume MX TE pages 304-310
	+ Unit 3 Lesson 3: Metric Units of Liquid Volume MX TE pages 314-318
* Make Connections - TE page 220A
* Math Connection - Make a Bar Graph (Average)
* *Math* Expressions *Connections:*
	+ Unit 3 Lesson 11: Read and Create Pictographs and Bar Graphs MX TE pages 374-378
	+ Unit 3 Lesson 12: Read and Create Bar Graphs with Multidigit Numbers MX TE pages 382-386
	+ Unit 3 Lesson 14: Use Graphs to Solve Time and Measurement Word Problems MX TE pages 396-398
* Math Connection - TE page 235
* *Math* Expressions *Connections:*
	+ Unit 1 Lesson 2: Multiplication as Equal Groups MX TE pages 13-15
	+ Unit 1 Lesson 6: Building Fluency with 2s and 5s MX TE page 60
	+ Unit 1 Lesson 9: Building Fluency with 2s, 5s, 9s, and 10s MX TE page 85
	+ Unit 1 Lesson 14: Building Fluency with 2s, 3s, 4s, 5s, 9s, and 10s MX TE pages 85-86
	+ Unit 1 Lesson 16: Solve and Create Word Problems MX TE pages 147-148
	+ Unit 1 Lesson 18: Building Fluency with 0s, 1s, 2s, 3s, 4s, 5s, 9s, and 10s MX TE pages 159-160
	+ Unit 2 Lesson 4: Write Word Problems and Equations MX TE pages 204-208
	+ Unit 2 Lesson 7: Practice with 6s, 7s, and 8s MX TE page 230
	+ Unit 3 Lesson 10: Solve Word Problems Involving Time MX TE pages 367-368
	+ Unit 3 Lesson 14: Use Graphs to Solve Time and Measurement Word Problems MX TE pages 396-398
	+ Unit 4 Lesson 3: Place Value in Word Problems MX TE pages 432-434
	+ Unit 4 Lesson 4: Practice with Place Value MX TE page 439
	+ Unit 4 Lesson 8: Discuss Addition Methods MX TE page 468
	+ Unit 4 Lesson 9: The Grouping Concept in Addition MX TE page 478
	+ Unit 4 Lesson 17: Solve Word Problems MX TE pages 538-542
	+ Unit 5 Lesson 1: Addition and Subtraction Situations MX TE pages 556-561
	+ Unit 5 Lesson 2: Word Problems with Unknown Addends or Unknown Factors MX TE pages 568-572
	+ Unit 5 Lesson 3: Word Problems with Unknown Starts MX TE pages 576-580
	+ Unit 5 Lesson 4: Comparison Problems MX TE pages 587-594
	+ Unit 5 Lesson 5: Comparison Problems with Misleading Language MX TE pages 598-600
	+ Unit 5 Lesson 6: Word Problems with Extra, Hidden, and Not Enough Information MX TE pages 604-608
* Math Connection - TE page 246
* *Math* Expressions *Connections:*
	+ Unit 3 Lesson 4: Customary Units of Weight and Metric Units of Mass MX TE pages 322-328
	+ Unit 3 Lesson 11: Read and Create Pictographs and Bar Graphs MX TE pages 372-378
	+ Unit 3 Lesson 12: Read and Create Bar Graphs with Multidigit Numbers MX TE pages 382-386
	+ Unit 3 Lesson 14: Use Graphs to Solve Time and Measurement Word Problems MX TE pages 396-398
* Math Connection - TE page 249
* *Math* Expressions *Connections:*
	+ Unit 3 Lesson 11: Read and Create Pictographs and Bar Graphs MX TE pages 372-378
	+ Unit 3 Lesson 12: Read and Create Bar Graphs with Multidigit Numbers MX TE pages 382-386
* Make Connections - TE page 254A
* Math Connection - Make a Bar Graph (Average)
* *Math* Expressions *Connections:*
	+ Unit 7 Lesson 1: Understand Fractions MX TE pages 744-752
	+ Unit 7 Lesson 2: Model Fractions MX TE pages 756-762
	+ Unit 7 Lesson 3: Locate Fractions on the Number Line MX TE pages 766-774
	+ Unit 7 Lesson 8: Problem Solving with Fractions MX TE pages 806-808
* Math Connection - TE page 305
* *Math* Expressions *Connections:*
	+ Unit 4 Lesson 1: Make Place Value Drawings MX TE page 420
	+ Unit 5 Lesson 4: Comparison Problems MX TE pages 584-586
* Make Connections - TE page 314A
* Math Connection - Calculate Temperature Change (Easy)
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| **ACADEMIC CONNECTIONS TO OTHER DISCIPLINES: MATH *cont.*** |
| Math Expressions *cont.** *Math* Expressions *Connections:*
	+ Unit 2 Lesson 4: Write Word Problems and Equations MX TE pages 204-208
	+ Unit 2 Lesson 7: Practice with 6s, 7s, and 8s MX TE page 230
	+ Unit 3 Lesson 10: Solve Word Problems Involving Time MX TE pages 367-368
	+ Unit 3 Lesson 14: Use Graphs to Solve Time and Measurement Word Problems MX TE pages 396-398
	+ Unit 4 Lesson 3: Place Value in Word Problems MX TE pages 432-434
	+ Unit 4 Lesson 4: Practice with Place Value MX TE page 439
	+ Unit 4 Lesson 8: Discuss Addition Methods MX TE page 468
	+ Unit 4 Lesson 9: The Grouping Concept in Addition MX TE page 478
	+ Unit 4 Lesson 17: Solve Word Problems MX TE pages 538-542
	+ Unit 5 Lesson 1: Addition and Subtraction Situations MX TE pages 556-561
	+ Unit 5 Lesson 2: Word Problems with Unknown Addends or Unknown Factors MX TE pages 568-572
	+ Unit 5 Lesson 3: Word Problems with Unknown Starts MX TE pages 576-580
	+ Unit 5 Lesson 4: Comparison Problems MX TE pages 587-594
	+ Unit 5 Lesson 5: Comparison Problems with Misleading Language MX TE pages 598-600
	+ Unit 5 Lesson 6: Word Problems with Extra, Hidden, and Not Enough Information MX TE pages 604-608
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