

SUGGESTED PACING	
<p>STRAND: EARTH AND SPACE SCIENCE (ESS) Topic: Cycles and Patterns in the Solar System This topic focuses on the characteristics, cycles and patterns in the solar system and within the universe. Content Statements:</p> <ul style="list-style-type: none"> • Most of the cycles and patterns of motion between the Earth and sun are predictable. • Earth’s revolution around the sun takes approximately 365 days. Earth completes one rotation on its axis in a 24-hour period, producing day and night. This rotation makes the sun, stars and moon appear to change position in the sky. Earth’s axis is tilted at an angle of 23.5°. This tilt, along with Earth’s revolution around the sun, affects the amount of direct sunlight that the Earth receives in a single day and throughout the year. The average daily temperature is related to the amount of direct sunlight received. Changes in average temperature throughout the year are identified as seasons. 	
PRINT RESOURCES	DIGITAL RESOURCES
<p><i>ScienceFusion</i></p> <ul style="list-style-type: none"> • Grade 5 Ohio Test Prep Book pages 1-11 • Unit 3, Lesson 1 • Unit 3, TE pages 107A-120A • Unit 3, Inquiry Flip Chart page 17 • Unit 3, Science and Engineering Leveled Readers: <ul style="list-style-type: none"> ○ On-Level/Below Level: <i>How Do the Sun, Earth, and Moon Move In Space?</i> ○ Above Level: <i>To the Moon</i> 	<p><i>ScienceFusion</i></p> <ul style="list-style-type: none"> • Unit 3, Lesson 1 Digital Lesson
	SCIENCE AND ACADEMIC VOCABULARY
	Axis, Orbit, Revolve, Rotate,
DIFFERENTIATION	FIELD EXPERIENCE CONNECTIONS
<p>Basic (Extra Support)</p> <ul style="list-style-type: none"> • Unit 3 Response to Intervention - TE page 105K • Unit 3 TE pages 108, 111, 113, 114, 117 <p>Advanced (Enrichment)</p> <ul style="list-style-type: none"> • Unit 3 TE pages 108, 111, 113, 114, 117 • Unit 3 STEM - Flipchart page 21, TE pages 105H, 153-154B <p>English Language Learners</p> <ul style="list-style-type: none"> • Unit 3 TE pages 105L-105M, 109, 112, 116 	<p>Cleveland Metroparks Zoo: Connections to Africa Program.</p> <p>Program Details: Students will explore African Elephant Crossing, focusing on how living things, including people, must share resources around them. The Zoo provides scientific tools that students can use during this inquiry-driven program. To prepare in advance please locate the Metroparks Zoo Trunk and Biomimicry Kits that are present in each CMSD K-8 building. Then attend the professional development session and complete teacher and student pre- and post-visit surveys.</p> <p>For information contact: Sandy Hadgis 216-635-3379 or email: sjh2@clevelandmetroparks.com</p>
INQUIRY SKILLS	
<ul style="list-style-type: none"> <li style="width: 25%;">• Communicate <li style="width: 25%;">• Draw Conclusions <li style="width: 25%;">• Gather, Record, Display, or Interpret Data <li style="width: 25%;">• Observe 	
HANDS-ON INQUIRY AND APPLICATION	
<ul style="list-style-type: none"> • “Arching Paths” (Flipchart page 17, TE pages 105D, 107A) • “Our Shadowy Moon” (Flipchart page 17, TE pages 105D, 107A) 	
ASSESSMENTS/PROGRESS MONITORING	ASSESSMENT GUIDE
<ul style="list-style-type: none"> • Sum it Up <ul style="list-style-type: none"> ○ Unit 3, Lesson 1 - SE page 118, TE page 118 • Brain Check and Apply Concepts <ul style="list-style-type: none"> ○ Unit 3, Lesson 1 - SE pages 119-120, TE pages 119-120 • Unit 3 Review - TE pages 155A-158 • Unit 3 Short Option Performance Assessment - TE page 157 	<p>Lesson Quiz</p> <ul style="list-style-type: none"> • Unit 3, Lesson 1 - page AG 25 • Unit 3 Test and Performance Task with Long Option Rubric - pages AG-AG

ACADEMIC CONNECTIONS TO OTHER DISCIPLINES

ELA: Journeys

- Writing Connection - TE page 115
- Make Connections - TE page 120A
 - Writing Connection - Sun, Earth, Moon Booklet (Average)

MATH: Math Expressions

- Math Connection - TE page 110
- Math Expressions Connections:
 - Unit 2 Lesson 9: Graph with Decimal Numbers MX TE page 173
 - Unit 7 Lesson 6: Graph Ordered Pairs MX TE pages 595-596
 - Unit 8 Lesson 7: Read and Make Line Plots MX TE pages 648-650
- Make Connections - TE page 120A
- Math Connection - Predict Tides (Average)
- Math Expressions Connections:
 - Unit 7 Lesson 4: Patterns and Relationships MX TE page 579
 - Unit 7 Lesson 6: Graph Ordered Pairs MX TE pages 595-596
 - Unit 8 Lesson 7: Read and Make Line Plots MX TE pages 648-650

SUGGESTED PACING	
<p>STRAND: LIFE SCIENCE (LS) Topic: Interconnections within Ecosystems This topic focuses on foundational knowledge of the structures and functions of ecosystems. Content Statements:</p> <ul style="list-style-type: none"> • Organisms perform a variety of roles in an ecosystem. • Populations of organisms can be categorized by how they acquire energy. • Food webs can be used to identify the relationships among producers, consumers and decomposers in an ecosystem. 	
PRINT RESOURCES	DIGITAL RESOURCES
<p><i>ScienceFusion</i></p> <ul style="list-style-type: none"> • Grade 5 Ohio Test Prep Book pages 12-19 • Unit 4, All lessons • Unit 4, TE pages 161A-198 • Unit 4, Inquiry Flip Chart pages 22-25 • Unit 5, Lessons 2-3 • Unit 5, TE pages 217A-232A • Unit 5, Inquiry Flip Chart pages 27, 29 • Science and Engineering Leveled Readers: <ul style="list-style-type: none"> ○ On-Level/Below Level: <i>How Do Organisms and Their Environments Form an Ecosystem?</i> ○ Above Level: <i>Predators of Shark River</i> 	<p><i>ScienceFusion</i></p> <ul style="list-style-type: none"> • Unit 4, Lesson 1 Digital Lesson • Unit 4, Lesson 2 Digital Lesson with Virtual Lab • Unit 4, Lesson 3 Digital Lesson • Unit 5, Lesson 2 Digital Lesson • Unit 5, Lesson 3 Digital Lesson with Virtual Lab
SCIENCE AND ACADEMIC VOCABULARY	
<p>Adaptation, Community, Ecosystem, Energy Pyramid, Environment, Food Chain, Food Web, Habitat, Instinct, Niche, Population</p>	
DIFFERENTIATION	FIELD EXPERIENCE CONNECTIONS
<p>Basic (Extra Support)</p> <ul style="list-style-type: none"> • Unit 4 Response to Intervention - TE page 159I • Unit 4 TE pages 163, 166, 169, 179, 184, 186, 188 • Unit 5 Response to Intervention - TE page 199I • Unit 5 TE pages 218, 222 <p>Advanced (Enrichment)</p> <ul style="list-style-type: none"> • Unit 4 TE pages 163, 166, 169, 179, 184, 186, 188 • Unit 4 STEM - Flipchart page 25, TE pages 159G, 193-194B • Unit 5 TE pages 218, 222 • Unit 5 STEM - Flipchart page 28, TE pages 199F, 229-230B <p>English Language Learners</p> <ul style="list-style-type: none"> • Unit 4 TE pages 159J-159K, 162, 165, 178, 180, 183 • Unit 5 TE pages 199J-199K, 221, 223 	<p>Cleveland Metroparks Zoo: Connections to Africa Program. Program Details: Students will explore African Elephant Crossing, focusing on how living things, including people, must share resources around them. The Zoo provides scientific tools that students can use during this inquiry-driven program. To prepare in advance please locate the Metroparks Zoo Trunk and Biomimicry Kits that are present in each CMSD K-8 building. Then attend the professional development session and complete teacher and student pre- and post-visit surveys. For information contact: Sandy Hadgis 216-635-3379 or email: sjh2@clevelandmetroparks.com</p>
INQUIRY SKILLS	
<ul style="list-style-type: none"> • Classify • Compare • Draw Conclusions • Formulate or Use Models • Gather, Record, Display, or Interpret Data • Infer • Observe • Plan and Conduct a Simple Investigation 	

HANDS-ON INQUIRY AND APPLICATION	
<ul style="list-style-type: none"> • “The Population Puzzle” (Flipchart page 22, TE pages 159D, 161A) • “Compare Climates” (Flipchart page 22, TE pages 159D, 161A) • “What Makes Up a Land Ecosystem?” (Flipchart page 23, TE pages 159e, 175A-176A) • “Gobbling Up Your Greens” (Flipchart page 24, TE pages 159F, 177A) • “Animal Adaptations” (Flipchart page 24, TE pages 159F, 177A) • “Model a Food Web” (Flipchart page 27, TE pages 199E, 217A) • “Bring It Home” (Flipchart page 27, TE pages 199E, 217A) • “What Role Do Decomposers Play?” (Flipchart page 29, TE pages 199G, 231A-232A) 	<p><i>Differentiated Inquiry</i></p> <ul style="list-style-type: none"> • Unit 4, TE page 176A <ul style="list-style-type: none"> ○ Native Plant Garden (Easy) ○ Animal Population (Average) ○ Population Estimates (Challenging) ○ Invasive Plants (Challenging) • Unit 5, TE page 232A <ul style="list-style-type: none"> ○ Further Observations of Mold (Easy) ○ Find the Decomposer (Average) ○ Composting (Average) ○ Growing Mushrooms (Challenging)
ASSESSMENTS/PROGRESS MONITORING	ASSESSMENT GUIDE
<ul style="list-style-type: none"> • Sum it Up <ul style="list-style-type: none"> ○ Unit 4, Lesson 1 - SE page 170, TE page 170 ○ Unit 4, Lesson 3 - SE page 190, TE page 190 ○ Unit 5, Lesson 2 - SE page 224, TE page 224 • Brain Check and Apply Concepts <ul style="list-style-type: none"> ○ Unit 4, Lesson 1 - SE pages 171-172, TE pages 171-172 ○ Unit 4, Lesson 3 - SE pages 191-192, TE pages 191-192 ○ Unit 5, Lesson 2 - SE pages 225-228, TE pages 225-228 • Unit 4 Review - TE pages 195A-198 • Unit 4 Short Option Performance Assessment - TE page 197 	<ul style="list-style-type: none"> • Lesson Quiz <ul style="list-style-type: none"> ○ Unit 4, Lesson 1 - page AG 37 ○ Unit 4, Lesson 2 - page AG 38 ○ Unit 4, Lesson 3 - page AG 39 ○ Unit 5, Lesson 2 - page AG 47 ○ Unit 5, Lesson 3 - page AG 48 • Unit 4 Test and Performance Task with Long Option Rubric - pages AG 39 -AG 45
ACADEMIC CONNECTIONS TO OTHER DISCIPLINES	
<p>ELA: Journeys</p> <ul style="list-style-type: none"> • Writing Connection - TE page 167 • Make Connections - TE page 172A <ul style="list-style-type: none"> ○ Writing Connection - Ecosystem Research (Average) • Writing Connection - TE page 173 • Writing Connection - TE page 181 • Writing Connection - TE page 182 • Writing Connection - TE page 187 <p>MATH: Math Expressions</p> <ul style="list-style-type: none"> • Math Connection - TE page 164 • <i>Math Expressions Connections:</i> <ul style="list-style-type: none"> ○ Unit 4 Lesson 1: Shift Patterns in Multiplication MX TE pages 294-302 ○ Unit 4 Lesson 2: Patterns with Fives and Zeros MX TE pages 306-308 ○ Unit 4 Lesson 3: Sharing Methods for Multiplication MX TE pages 312-314 ○ Unit 4 Lesson 4: Multiply Two-Digit Numbers MX TE pages 318-322 ○ Unit 4 Lesson 5: Practice Multiplication MX TE page 326 ○ Unit 6 Lesson 2: Situation and Solution Equations for Multiplication and Division MX TE pages 482-486 • Math Connection - TE page 168 • <i>Math Expressions Connections:</i> <ul style="list-style-type: none"> ○ Unit 1 Lesson 12: Real World Problems MX TE pages 88-90 ○ Unit 3 Lesson 8: Solve Real World Problems MX TE pages 244-246 ○ Unit 3 Lesson 13: Review Operations with Fractions MX TE pages 278-280 • Math Connection - TE page 185 • <i>Math Expressions Connections:</i> <ul style="list-style-type: none"> ○ Unit 2 Lesson 9: Graph with Decimal Numbers MX TE page 174 ○ Unit 6 Lesson 11: Focus on Mathematical Processes MX TE page 549 • Math Connection - TE page 189 • <i>Math Expressions Connections:</i> <ul style="list-style-type: none"> ○ Unit 2 Lesson 9: Graph with Decimal Numbers MX TE page 174 ○ Unit 6 Lesson 11: Focus on Mathematical Processes MX TE page 549 • Make Connections - TE page 192A • Math Connection - Word Problem (Average) 	
<ul style="list-style-type: none"> • Make Connections - TE page 192A <ul style="list-style-type: none"> ○ Writing Connection - Structure and Function Fill in the Blank (Average) • Writing Connection - TE page 219 • Make Connections - TE page 228A <ul style="list-style-type: none"> ○ Writing Connection - A Letter to Canada (Average) 	

ACADEMIC CONNECTIONS TO OTHER DISCIPLINES *cont.*MATH: Math Expressions *cont.*

- *Math Expressions Connections:*
 - Unit 1 Lesson 12: Real World Problems MX TE pages 88-90
 - Unit 3 Lesson 8: Solve Real World Problems MX TE page 246
 - Unit 3 Lesson 11: Solve Division Problems MX TE pages 265-266
 - Unit 3 Lesson 12: Distinguish Multiplication from Division MX TE pages 270, 273
 - Unit 4 Lesson 8: Multiply with Decimals Greater Than 1 MX TE page 349
 - Unit 4 Lesson 11: Multiplication Practice MX TE pages 371-372
 - Unit 5 Lesson 4: Interpret Remainders MX TE pages 410-412
 - Unit 5 Lesson 5: Division Practice MX TE pages 419-420
 - Unit 6 Lesson 1: Situation and Solution Equations for Addition and Subtraction MX TE pages 474-477
 - Unit 6 Lesson 2: Situation and Solution Equations for Multiplication and Division MX TE pages 482-486
 - Unit 6 Lesson 5: Language of Comparison Problems MX TE pages 504-508
 - Unit 6 Lesson 6: Multiplicative Comparison Problems MX TE pages 512-516
 - Unit 6 Lesson 7: Types of Comparison Problems MX TE pages 520-524
 - Unit 8 Lesson 1: Convert Metric Units of Length MX TE pages 612-614
 - Unit 8 Lesson 2: Metric Units of Liquid Volume MX TE pages 619-620
 - Unit 8 Lesson 3: Metric Units of Mass MX TE pages 625-626
 - Unit 8 Lesson 4: Customary Units of Length MX TE page 632
 - Unit 8 Lesson 5: Customary Measures of Liquid Volume MX TE page 638
 - Unit 8 Lesson 6: Customary Units of Weight MX TE page 644
- Math Connection - TE page 220
- *Math Expressions Connections:*
 - Unit 4 Lesson 1: Shift Patterns in Multiplication MX TE pages 294-302
 - Unit 4 Lesson 2: Patterns with Fives and Zeros MX TE pages 306-308
 - Unit 4 Lesson 3: Sharing Methods for Multiplication MX TE pages 312-314
 - Unit 4 Lesson 4: Multiply Two-Digit Numbers MX TE pages 318-322
 - Unit 4 Lesson 5: Practice Multiplication MX TE page 326
 - Unit 6 Lesson 2: Situation and Solution Equations for Multiplication and Division MX TE pages 482-486
- Make Connections - TE page 228A
- Math Connection - Feeding Fractions (Average)
- *Math Expressions Connections:*
 - Unit 1 Lesson 12: Real World Problems MX TE pages 88-90
 - Unit 3 Lesson 8: Solve Real World Problems MX TE pages 244-246
 - Unit 3 Lesson 13: Review Operations with Fractions MX TE pages 278-280

SUGGESTED PACING	
<p>STRAND: LIFE SCIENCE (LS) Topic: Interconnections within Ecosystems This topic focuses on foundational knowledge of the structures and functions of ecosystems. Content Statements:</p> <ul style="list-style-type: none"> • All of the processes that take place within organisms require energy. • For ecosystems, the major source of energy is sunlight. • Energy entering ecosystems as sunlight is transferred and transformed by producers into energy that organisms use through the process of photosynthesis. That energy then passes from organism to organism as illustrated in food webs. • In most ecosystems, energy derived from the sun is transferred and transformed into energy that organisms use by the process of photosynthesis in plants and other photosynthetic organisms. 	
PRINT RESOURCES	DIGITAL RESOURCES
<p><i>ScienceFusion</i></p> <ul style="list-style-type: none"> • Grade 5 Ohio Test Prep Book pages 12-19 • Unit 5, All Lessons • Unit 5, TE pages 201A-236 • Unit 5, Inquiry Flip Chart pages 26-29 • Unit 5, Science and Engineering Leveled Readers: <ul style="list-style-type: none"> ○ On -Level/Below Level: <i>How Do Organisms and Their Environments Form an Ecosystem?</i> ○ Above Level: <i>Predators of Shark River</i> 	<p><i>ScienceFusion</i></p> <ul style="list-style-type: none"> • Unit 5, Lesson 1 Digital Lesson • Unit 5, Lesson 2 Digital Lesson • Unit 5, Lesson 3 Digital Lesson with Virtual Lab
SCIENCE AND ACADEMIC VOCABULARY	
<p>Chlorophyll, Consumer, Decomposer, Energy Pyramid, Food Chain, Food Web, Photosynthesis, Producer</p>	
DIFFERENTIATION	FIELD EXPERIENCE CONNECTIONS
<p>Basic (Extra Support)</p> <ul style="list-style-type: none"> • Unit 5 Response to Intervention - TE page 199I • Unit 5 TE pages 202, 207, 209, 211, 218, 222 <p>Advanced (Enrichment)</p> <ul style="list-style-type: none"> • Unit 5 TE pages 202, 207, 209, 211, 218, 222 • Unit 5 STEM - Flipchart page 28, TE pages 199F, 229-230B <p>English Language Learners</p> <ul style="list-style-type: none"> • Unit 5 TE pages 199J-199K, 204, 208, 221, 223 	<p>Cleveland Metroparks Zoo: Connections to Africa Program. Program Details: Students will explore African Elephant Crossing, focusing on how living things, including people, must share resources around them. The Zoo provides scientific tools that students can use during this inquiry-driven program. To prepare in advance please locate the Metroparks Zoo Trunk and Biomimicry Kits that are present in each CMSD K-8 building. Then attend the professional development session and complete teacher and student pre- and post-visit surveys. For information contact: Sandy Hadgis 216-635-3379 or email: sjh2@clevelandmetroparks.com</p>
INQUIRY SKILLS	
<ul style="list-style-type: none"> • Classify/Order • Compare • Draw Conclusions 	<ul style="list-style-type: none"> • Formulate or Use Models • Gather, Record, Display, or Interpret Data • Infer • Observe • Predict
HANDS-ON INQUIRY AND APPLICATION	
<ul style="list-style-type: none"> • "True Colors" (Flipchart page 26, TE pages 199D, 201A) • "A 'Super' Predator" (Flipchart page 26, TE pages 199D, 201A) • "Model a Food Web" (Flipchart page 27, TE pages 199E, 217A) • "Bring It Home" (Flipchart page 27, TE pages 199E, 217A) • "What Role Do Decomposers Play?" (Flipchart page 29, TE pages 199G, 231A-232A) 	<p><i>Differentiated Inquiry</i></p> <ul style="list-style-type: none"> • Unit 5, TE page 232A <ul style="list-style-type: none"> ○ Further Observations of Mold (Easy) ○ Find the Decomposer (Average) ○ Composting (Average) ○ Growing Mushrooms (Challenging)

ASSESSMENTS/PROGRESS MONITORING	ASSESSMENT GUIDE
<ul style="list-style-type: none"> • Sum it Up <ul style="list-style-type: none"> ○ Unit 5, Lesson 1 - SE page 212, TE page 212 ○ Unit 5, Lesson 2 - SE page 224, TE page 224 • Brain Check and Apply Concepts <ul style="list-style-type: none"> ○ Unit 5, Lesson 1 - SE pages 213-214, TE pages 213-214 ○ Unit 5, Lesson 2 - SE pages 225-228, TE pages 225-228 • Unit 5 Review - TE pages 195A-198 • Unit 5 Short Option Performance Assessment - TE page 197 	<ul style="list-style-type: none"> • Lesson Quiz <ul style="list-style-type: none"> ○ Unit 5, Lesson 1 - page AG 46 ○ Unit 5, Lesson 2 - page AG 47 ○ Unit 5, Lesson 3 - page AG 48 • Unit 5 Test and Performance Task with Long Option Rubric - pages AG -AG
ACADEMIC CONNECTIONS TO OTHER DISCIPLINES	
<p>ELA: Journeys</p> <ul style="list-style-type: none"> • Writing Connection - TE page 203 • Writing Connection - TE page 210 • Make Connections - TE page 214A <ul style="list-style-type: none"> ○ Writing Connection - How the Dodo Bird Went Extinct (Average) ○ Writing Connection - The Day the Rain Forest Disappeared (Challenging) <p>Writing Connection - TE page 216</p> <ul style="list-style-type: none"> • Writing Connection - TE page 219 • Make Connections - TE page 228A <ul style="list-style-type: none"> ○ Writing Connection - A Letter to Canada (Average) <p>MATH: Math Expressions</p> <ul style="list-style-type: none"> • Math Connection - TE page 205 • <i>Math Expressions Connections:</i> <ul style="list-style-type: none"> ○ Unit 1 Lesson 2: Explain Equivalent Fractions MX TE pages 8-14 ○ Unit 1 Lesson 7: Add Unlike Fractions MX TE pages 52-58 ○ Unit 1 Lesson 9: Solve with Unlike Mixed Numbers MX TE pages 68-72 ○ Unit 1 Lesson 10: Practice with Unlike Mixed Numbers MX TE pages 76-78 • Math Connection - TE page 206 • <i>Math Expressions Connections:</i> <ul style="list-style-type: none"> ○ Unit 8 Lesson 14: Attributes of Quadrilaterals MX TE page 703 ○ Unit 8 Lesson 15: Attributes of Triangle MX TE pages 708-710 ○ Unit 8 Lesson 16: Attributes of Two-Dimensional Shapes MX TE page 717 • Make Connections - TE page 214A • Math Connection - Squirrels, Walnut Trees, and Nests (Easy) • <i>Math Expressions Connections:</i> <ul style="list-style-type: none"> ○ Unit 1 Lesson 12: Real World Problems MX TE pages 88-90 ○ Unit 3 Lesson 8: Solve Real World Problems MX TE page 246 ○ Unit 3 Lesson 11: Solve Division Problems MX TE pages 265-266 ○ Unit 3 Lesson 12: Distinguish Multiplication from Division MX TE pages 270, 273 ○ Unit 4 Lesson 8: Multiply with Decimals Greater Than 1 MX TE page 349 ○ Unit 4 Lesson 11: Multiplication Practice MX TE pages 371-372 ○ Unit 5 Lesson 4: Interpret Remainders MX TE pages 410-412 ○ Unit 5 Lesson 5: Division Practice MX TE pages 419-420 ○ Unit 6 Lesson 1: Situation and Solution Equations for Addition and Subtraction MX TE pages 474-477 ○ Unit 6 Lesson 2: Situation and Solution Equations for Multiplication and Division MX TE pages 482-486 ○ Unit 6 Lesson 5: Language of Comparison Problems MX TE pages 504-508 ○ Unit 6 Lesson 6: Multiplicative Comparison Problems MX TE pages 512-516 ○ Unit 6 Lesson 7: Types of Comparison Problems MX TE pages 520-524 ○ Unit 8 Lesson 1: Convert Metric Units of Length MX TE pages 612-614 ○ Unit 8 Lesson 2: Metric Units of Liquid Volume MX TE pages 619-620 ○ Unit 8 Lesson 3: Metric Units of Mass MX TE pages 625-626 ○ Unit 8 Lesson 4: Customary Units of Length MX TE page 632 ○ Unit 8 Lesson 5: Customary Measures of Liquid Volume MX TE page 638 ○ Unit 8 Lesson 6: Customary Units of Weight MX TE page 644 	

ACADEMIC CONNECTIONS TO OTHER DISCIPLINES *cont.*

MATH: Math Expressions *cont.*

- Math Connection - TE page 220
- *Math Expressions Connections:*
 - Unit 4 Lesson 1: Shift Patterns in Multiplication MX TE pages 294-302
 - Unit 4 Lesson 2: Patterns with Fives and Zeros MX TE pages 306-308
 - Unit 4 Lesson 3: Sharing Methods for Multiplication MX TE pages 312-314
 - Unit 4 Lesson 4: Multiply Two-Digit Numbers MX TE pages 318-322
 - Unit 4 Lesson 5: Practice Multiplication MX TE page 326
 - Unit 6 Lesson 2: Situation and Solution Equations for Multiplication and Division MX TE pages 482-486
- Make Connections - TE page 228A
- Math Connection - Feeding Fractions (Average)
- *Math Expressions Connections:*
 - Unit 1 Lesson 12: Real World Problems MX TE pages 88-90
 - Unit 3 Lesson 8: Solve Real World Problems MX TE pages 244-246
 - Unit 3 Lesson 13: Review Operations with Fractions MX TE pages 278-280

SUGGESTED PACING				
<p>STRAND: PHYSICAL SCIENCE (PS) Topic: Light, Sound and Motion This topic focuses on the forces that affect motion. This includes the relationship between the change in speed of an object, the amount of force applied and the mass* of the object. Light and sound are explored as forms of energy that move in predictable ways, depending on the matter through which they move. Content Statements:</p> <ul style="list-style-type: none"> • The amount of change in movement of an object is based on the mass* of the object and the amount of force exerted. • Movement can be measured by speed. The speed of an object is calculated by determining the distance (d) traveled in a period of time (t). • Earth pulls down on all objects with a gravitational force. Weight is a measure of the gravitational force between an object and the Earth. • Any change in speed or direction of an object requires a force and is affected by the mass* of the object and the amount of force applied. 				
PRINT RESOURCES	DIGITAL RESOURCES			
<p><i>ScienceFusion</i></p> <ul style="list-style-type: none"> • Grade 5 Ohio Test Prep Book pages 20-28 • Unit 6, All Lessons • Unit 6, TE pages 239A-282 • Unit 6, Inquiry Flip Chart pages 30-34 • Science and Engineering Leveled Readers: <ul style="list-style-type: none"> ○ On-Level/Below Level: <i>How Do Forces Affect Motion?</i> ○ Above Level: <i>International Space Station</i> 	<p><i>ScienceFusion</i></p> <ul style="list-style-type: none"> • Unit 6, Lesson 1 Digital Lesson • Unit 6, Lesson 2 Digital Lesson • Unit 6, Lesson 3 Digital Lesson with Virtual Lab • Unit 6, Lesson 4 Digital Lesson with Virtual Lab 			
SCIENCE AND ACADEMIC VOCABULARY				
<p>Acceleration, Balanced Forces, Force, Friction, Gravity, Motion, Position, Speed, Unbalanced Forces, Velocity</p>				
DIFFERENTIATION	FIELD EXPERIENCE CONNECTIONS			
<p>Basic (Extra Support)</p> <ul style="list-style-type: none"> • Unit 6 Response to Intervention - TE page 237K • Unit 6 TE pages 243, 246, 255, 256, 259, 260, 264 <p>Advanced (Enrichment)</p> <ul style="list-style-type: none"> • Unit 6 TE pages 243, 246, 255, 256, 259, 260, 264 • Unit 6 STEM - Flipchart page 32, TE pages 237F, 271-272B <p>English Language Learners</p> <ul style="list-style-type: none"> • Unit 6 TE pages 237L-237M, 240, 242, 254, 258, 262 	<p>Cleveland Metroparks Zoo: Connections to Africa Program. Program Details: Students will explore African Elephant Crossing, focusing on how living things, including people, must share resources around them. The Zoo provides scientific tools that students can use during this inquiry-driven program. To prepare in advance please locate the Metroparks Zoo Trunk and Biomimicry Kits that are present in each CMSD K-8 building. Then attend the professional development session and complete teacher and student pre- and post-visit surveys. For information contact: Sandy Hadgis 216-635-3379 or email: sjh2@clevelandmetroparks.com</p>			
INQUIRY SKILLS				
<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <ul style="list-style-type: none"> • Compare • Draw Conclusions • Experiment • Gather, Record, Display, or Interpret Data </td> <td style="width: 33%; vertical-align: top;"> <ul style="list-style-type: none"> • Identify and Control Variables • Measure • Observe </td> <td style="width: 33%; vertical-align: top;"> <ul style="list-style-type: none"> • Plan and Conduct a Simple Investigation • Predict • Use Numbers </td> </tr> </table>		<ul style="list-style-type: none"> • Compare • Draw Conclusions • Experiment • Gather, Record, Display, or Interpret Data 	<ul style="list-style-type: none"> • Identify and Control Variables • Measure • Observe 	<ul style="list-style-type: none"> • Plan and Conduct a Simple Investigation • Predict • Use Numbers
<ul style="list-style-type: none"> • Compare • Draw Conclusions • Experiment • Gather, Record, Display, or Interpret Data 	<ul style="list-style-type: none"> • Identify and Control Variables • Measure • Observe 	<ul style="list-style-type: none"> • Plan and Conduct a Simple Investigation • Predict • Use Numbers 		

HANDS-ON INQUIRY AND APPLICATION	
<ul style="list-style-type: none"> • “Fast Walk, Slow Walk” (Flipchart page 30, TE pages 237D, 239A) • “Push or Pull” (Flipchart page 30, TE pages 237D, 239A) • “On a Roll” (Flipchart page 31, TE pages 237E, 253A) • “Make It Easier” (Flipchart page 31, TE pages 237E, 253A) • “How Do Forces Affect Motion?” (Flipchart page 33, TE pages 237G, 273A-274A) • “How Do Gravity and Friction Affect Motion?” (Flipchart page 34, TE pages 237H, 275A-278) 	<p><i>Differentiated Inquiry</i></p> <ul style="list-style-type: none"> • Unit 6, TE page 274A <ul style="list-style-type: none"> ○ Identify Variables (Easy) ○ Analyze Forces (Easy) ○ Compare Data Displayed on Graphs (Average) ○ Predict the Effect of Gravity (Challenging) • Unit 6, TE page 276A <ul style="list-style-type: none"> ○ Explore Forces (Easy) ○ Predict Forces (Easy) ○ Analyze Forces (Average) ○ Experiment with Static & Sliding Friction (Challenging)
ASSESSMENTS/PROGRESS MONITORING	ASSESSMENT GUIDE
<ul style="list-style-type: none"> • Sum it Up <ul style="list-style-type: none"> ○ Unit 6, Lesson 1 - SE page 248, TE page 248 ○ Unit 6, Lesson 2 - SE page 266, TE page 266 • Brain Check and Apply Concepts <ul style="list-style-type: none"> ○ Unit 6, Lesson 1 - SE pages 249-252, TE pages 249-252 ○ Unit 6, Lesson 2 - SE pages 267-270, TE pages 267-270 • Unit 6 Review - TE pages 279-282 • Unit 6 Short Option Performance Assessment - TE page 281 	<ul style="list-style-type: none"> • Lesson Quiz <ul style="list-style-type: none"> ○ Unit 6, Lesson 1 - page AG 56 ○ Unit 6, Lesson 2 - page AG 57 ○ Unit 6, Lesson 3 - page AG 58 ○ Unit 6, Lesson 4 - page AG 59 • Unit 6 Test and Performance Task with Long Option Rubric - pages AG 60-AG 66
ACADEMIC CONNECTIONS TO OTHER DISCIPLINES	
<p>ELA: Journeys</p> <ul style="list-style-type: none"> • Writing Connection - TE page 247 • Make Connections - TE page 252A <ul style="list-style-type: none"> ○ Writing Connection - Write a Story (Average) • Writing Connection - TE page 257 • Writing Connection - TE page 263 • Make Connections - TE page 270A <ul style="list-style-type: none"> ○ Writing Connection - Write an Explanation (Challenging) • Writing Connection - TE page 277 <p>MATH: Math Expressions</p> <ul style="list-style-type: none"> • Math Connection - TE page 244 • <i>Math Expressions Connections:</i> <ul style="list-style-type: none"> ○ Unit 7 Lesson 6: Graph Ordered Pairs MX TE pages 594-596 • Make Connections - TE page 252A • Math Connection - Find Average Speed (Easy) • <i>Math Expressions Connections:</i> <ul style="list-style-type: none"> ○ Unit 7 Lesson 6: Graph Ordered Pairs MX TE pages 594-596 • Math Connection - TE page 261 • <i>Math Expressions Connections:</i> <ul style="list-style-type: none"> ○ Unit 1 Lesson 12: Real World Problems MX TE pages 88-90 ○ Unit 3 Lesson 8: Solve Real World Problems MX TE page 246 ○ Unit 3 Lesson 11: Solve Division Problems MX TE pages 265-266 ○ Unit 3 Lesson 12: Distinguish Multiplication from Division MX TE pages 270, 273 ○ Unit 4 Lesson 8: Multiply with Decimals Greater Than 1 MX TE page 349 ○ Unit 4 Lesson 11: Multiplication Practice MX TE pages 371-372 ○ Unit 5 Lesson 4: Interpret Remainders MX TE pages 410-412 ○ Unit 5 Lesson 5: Division Practice MX TE pages 419-420 ○ Unit 6 Lesson 1: Situation and Solution Equations for Addition and Subtraction MX TE pages 474-477 ○ Unit 6 Lesson 2: Situation and Solution Equations for Multiplication and Division MX TE pages 482-486 ○ Unit 6 Lesson 5: Language of Comparison Problems MX TE pages 504-508 ○ Unit 6 Lesson 6: Multiplicative Comparison Problems MX TE pages 512-516 ○ Unit 6 Lesson 7: Types of Comparison Problems MX TE pages 520-524 	<p><i>Journeys Connections</i></p> <ul style="list-style-type: none"> • Lesson 1 <ul style="list-style-type: none"> ○ Whole Group: Anchor Text: Package for Mrs. Jewls (T29) ○ Whole Group: Reader’s Theater: Questioning Gravity (T39) ○ Small Group: Vocabulary Reader: Sports & Motion (T63)

ACADEMIC CONNECTIONS TO OTHER DISCIPLINES *cont.*MATH: Math Expressions *cont.*

- *Math Expressions Connections cont.:*
 - Unit 8 Lesson 1: Convert Metric Units of Length MX TE pages 612-614
 - Unit 8 Lesson 2: Metric Units of Liquid Volume MX TE pages 619-620
 - Unit 8 Lesson 3: Metric Units of Mass MX TE pages 625-626
 - Unit 8 Lesson 4: Customary Units of Length MX TE page 632
 - Unit 8 Lesson 5: Customary Measures of Liquid Volume MX TE page 638
 - Unit 8 Lesson 6: Customary Units of Weight MX TE page 644
- Math Connection - TE page 265
- *Math Expressions Connections:*
 - Unit 6 Lesson 11: Focus on Mathematical Practices MX TE page 552
 - Unit 8 Lesson 7: Read and Make Line Plots MX TE pages 648-650
- Make Connections - TE page 270A
- Math Connection - Solve Problems (Average)
- *Math Expressions Connections:*
 - Unit 1 Lesson 12: Real World Problems MX TE pages 88-90
 - Unit 3 Lesson 8: Solve Real World Problems MX TE page 246
 - Unit 3 Lesson 11: Solve Division Problems MX TE pages 265-266
 - Unit 3 Lesson 12: Distinguish Multiplication from Division MX TE pages 270, 273
 - Unit 4 Lesson 8: Multiply with Decimals Greater Than 1 MX TE page 349
 - Unit 4 Lesson 11: Multiplication Practice MX TE pages 371-372
 - Unit 5 Lesson 4: Interpret Remainders MX TE pages 410-412
 - Unit 5 Lesson 5: Division Practice MX TE pages 419-420
 - Unit 6 Lesson 1: Situation and Solution Equations for Addition and Subtraction MX TE pages 474-477
 - Unit 6 Lesson 2: Situation and Solution Equations for Multiplication and Division MX TE pages 482-486
 - Unit 6 Lesson 5: Language of Comparison Problems MX TE pages 504-508
 - Unit 6 Lesson 6: Multiplicative Comparison Problems MX TE pages 512-516
 - Unit 6 Lesson 7: Types of Comparison Problems MX TE pages 520-524
 - Unit 8 Lesson 1: Convert Metric Units of Length MX TE pages 612-614
 - Unit 8 Lesson 2: Metric Units of Liquid Volume MX TE pages 619-620
 - Unit 8 Lesson 3: Metric Units of Mass MX TE pages 625-626
 - Unit 8 Lesson 4: Customary Units of Length MX TE page 632
 - Unit 8 Lesson 5: Customary Measures of Liquid Volume MX TE page 638

SUGGESTED PACING		
<p>STRAND: PHYSICAL SCIENCE (PS) Topic: Light, Sound and Motion This topic focuses on the forces that affect motion. This includes the relationship between the change in speed of an object, the amount of force applied and the mass* of the object. Light and sound are explored as forms of energy that move in predictable ways, depending on the matter through which they move. Content Statements:</p> <ul style="list-style-type: none"> • Light and sound are forms of energy that behave in predictable ways. • Light travels and maintains its direction until it interacts with an object or moves from one medium to another and then it can be reflected, refracted or absorbed. • Sound is produced by vibrating objects and requires a medium through which to travel. The rate of vibration is related to the pitch of the sound. 		
PRINT RESOURCES	DIGITAL RESOURCES	
<p><i>ScienceFusion</i></p> <ul style="list-style-type: none"> • Grade 5 Ohio Test Prep Book pages 20-28 • Unit 7, All Lessons • Unit 7, TE pages 285A-352 • Unit 7, Inquiry Flip Chart pages 35-41 • Unit 8, All Lessons • Unit 8, TE pages 355A-392 • Unit 8, Inquiry Flip Chart pages 42-46 • Science and Engineering Leveled Readers: <ul style="list-style-type: none"> ○ On -Level/Below Level: <i>How Do We Use sound and Light?</i> ○ Above Level: <i>Light Technologies</i> 	<p><i>ScienceFusion</i></p> <ul style="list-style-type: none"> • Unit 7, Lesson 1 Digital Lesson • Unit 7, Lesson 2 Digital Lesson • Unit 7, Lesson 3 Digital Lesson with Virtual Lab • Unit 7, Lesson 4 Digital Lesson • Unit 7, Lesson 5 Digital Lesson • Unit 7, Lesson 6 Digital Lesson with Virtual Lab • Unit 8, Lesson 1 Digital Lesson • Unit 8, Lesson 2 Digital Lesson with Virtual Lab • Unit 8, Lesson 3 Digital Lesson • Unit 8, Lesson 4 Digital Lesson with Virtual Lab 	
SCIENCE AND ACADEMIC VOCABULARY		
<p>Chemical Energy, Circuit, Conductor, Electric Current, Electrical Energy, Energy, Frequency, Heat, Insulator, Kinetic Energy, Light, Mechanical Energy, Opaque, Parallel Circuit, Pitch, Potential Energy, Reflections, Refraction, Series Circuit, Static Electricity, Temperature, Thermal Energy, Translucent, Transparent, Volume, Wave, Prism</p>		
DIFFERENTIATION	FIELD EXPERIENCE CONNECTIONS	
<p>Basic (Extra Support)</p> <ul style="list-style-type: none"> • Unit 7 Response to Intervention - TE page 283K • Unit 7 TE pages 287, 288, 294, 296, 304, 307, 309, 311, 319, 320, 322, 325, 332, 335, 337, 338 • Unit 8 Response to Intervention - TE page 353K • Unit 8 TE pages 357, 358, 360, 363, 365, 375, 378, 380 <p>Advanced (Enrichment)</p> <ul style="list-style-type: none"> • Unit 7 TE pages 287, 288, 294, 296, 304, 307, 309, 311, 319, 320, 322, 325, 332, 335, 337, 338 • Unit 7 STEM - Flipchart page 41, TE pages 283I, 347-348B • Unit 8 TE pages 357, 358, 360, 363, 365, 375, 378, 380 • Unit 8 STEM - Flipchart page 45, TE pages 353G, 385-386B <p>English Language Learners</p> <ul style="list-style-type: none"> • Unit 7 TE pages 283L-283M, 286, 290, 293, 295, 306, 310, 318, 324, 333, 336 • Unit 8 TE pages 353L-353M, 356, 364, 374, 376, 379 	<p>Cleveland Metroparks Zoo: Connections to Africa Program. Program Details: Students will explore African Elephant Crossing, focusing on how living things, including people, must share resources around them. The Zoo provides scientific tools that students can use during this inquiry-driven program. To prepare in advance please locate the Metroparks Zoo Trunk and Biomimicry Kits that are present in each CMSD K-8 building. Then attend the professional development session and complete teacher and student pre- and post-visit surveys. For information contact: Sandy Hadgis 216-635-3379 or email: sjh2@clevelandmetroparks.com</p>	
INQUIRY SKILLS		
<ul style="list-style-type: none"> • Communicate • Compare • Draw Conclusions • Experiment 	<ul style="list-style-type: none"> • Formulate or Use Models • Hypothesize • Identify and Control Variables • Infer 	<ul style="list-style-type: none"> • Measure • Observe • Plan and Conduct a Simple Investigation • Predict

HANDS-ON INQUIRY AND APPLICATION	
<ul style="list-style-type: none"> • “Seeing Sound Energy” (Flipchart page 35, TE pages 283D, 285A) • “Light Travels” (Flipchart page 35, TE pages 283D, 285A) • “Where’s the Energy?” (Flipchart page 36, TE pages 283E, 303A) • “Heating From Afar” (Flipchart page 36, TE pages 283E, 303A) • “What Changes Can Energy Cause?” (Flipchart page 37, TE pages 283F, 315A-316A) • “Static Cereal” (Flipchart page 38, TE pages 283G, 317A) • “Invent a Use” (Flipchart page 38, TE pages 283G, 317A) • “Test the Load” (Flipchart page 39, TE pages 283H, 331A) • “High, Low, and Just Right” (Flipchart page 39, TE pages 283H, 331A) • “How Does an Electric Circuit Work?” (Flipchart page 40, TE pages 283I, 345A-346A) • “Good Vibrations” (Flipchart page 42, TE pages 353D, 355A) • “Thick or Thin” (Flipchart page 42, TE pages 353D, 355A) • “How Does Sound Travel Through Solids, Liquids, and Gases?” (Flipchart page 43, TE pages 353E, 371A-372A) • “Coins in a Fountain” (Flipchart page 44, TE pages 353F, 373A) • “Bending Light” (Flipchart page 44, TE pages 353F, 373A) • “What Happens When Light is Reflected and Refracted?” (Flipchart page 45, TE pages 353H, 387A-388A) 	<p><i>Differentiated Inquiry</i></p> <ul style="list-style-type: none"> • Unit 7, TE page 316A <ul style="list-style-type: none"> ○ Compare Cookers (Easy) ○ Con You Cook With a Lightbulb? (Easy) ○ Design an Experiment (Average) ○ Design a Solar Cooker (Challenging) • Unit 7, TE page 346A <ul style="list-style-type: none"> ○ Examine a Circuit (Easy) ○ Determine Sequence of Parts (Average) ○ Find Out More About Circuits (Average) ○ Compare Brightness (Challenging) • Unit 8, TE page 372A <ul style="list-style-type: none"> ○ Scratch Instead of Tap (Easy) ○ Change a Tested Condition (Easy) ○ Construct a Second Drum (Average) ○ Loosen & Tighten the Surface of the Drum (Challenging) • Unit 8, TE page 388A <ul style="list-style-type: none"> ○ Test More Angles (Easy) ○ Explore Curved Mirrors (Average) ○ Investigate Refraction (Average) ○ Explore Colors Produced in Dispersion (Challenging)
ASSESSMENTS/PROGRESS MONITORING	ASSESSMENT GUIDE
<ul style="list-style-type: none"> • Sum it Up <ul style="list-style-type: none"> ○ Unit 7, Lesson 1 - SE page 298, TE page 298 ○ Unit 7, Lesson 2 - SE page 312, TE page 312 ○ Unit 7, Lesson 4 - SE page 326, TE page 326 ○ Unit 7, Lesson 5 - SE page 340, TE page 340 ○ Unit 8, Lesson 1 - SE page 366, TE page 366 ○ Unit 8, Lesson 3 - SE page 382, TE page 382 • Brain Check and Apply Concepts <ul style="list-style-type: none"> ○ Unit 7, Lesson 1 - SE pages 299-300, TE pages 299-300 ○ Unit 7, Lesson 2 - SE pages 313-314, TE pages 313-314 ○ Unit 7, Lesson 4 - SE pages 327-330, TE pages 327-330 ○ Unit 7, Lesson 5 - SE pages 341-344, TE pages 341-344 ○ Unit 8, Lesson 1 - SE pages 367-368, TE pages 367-368 ○ Unit 8, Lesson 3 - SE pages 383-384, TE pages 383-384 • Unit 7 Review - TE pages 349A-352 • Unit 7 Short Option Performance Assessment - TE page 351 • Unit 8 Review - TE pages 389A-392 • Unit 6 Short Option Performance Assessment - TE page 391 	<ul style="list-style-type: none"> • Lesson Quiz <ul style="list-style-type: none"> ○ Unit 7, Lesson 1 - page AG 67 ○ Unit 7, Lesson 2 - page AG 68 ○ Unit 7, Lesson 3 - page AG 69 ○ Unit 7, Lesson 4 - page AG 70 ○ Unit 7, Lesson 5 - page AG 71 ○ Unit 7, Lesson 6 - page AG 72 ○ Unit 8, Lesson 1 - page AG 80 ○ Unit 8, Lesson 2 - page AG 81 ○ Unit 8, Lesson 3 - page AG 82 ○ Unit 8, Lesson 4 - page AG 83 • Unit 7 Test and Performance Task with Long Option Rubric - pages AG 73-AG 79 • Unit 8 Test and Performance Task with Long Option Rubric - pages AG 84-AG 90
ACADEMIC CONNECTIONS TO OTHER DISCIPLINES	
<p>ELA: Journeys</p> <ul style="list-style-type: none"> • Writing Connection - TE page 292 • Writing Connection - TE page 297 • Writing Connection - TE page 302 • Writing Connection - TE page 305 • Writing Connection - TE page 323 • Make Connections - TE page 330A <ul style="list-style-type: none"> ○ Language Arts Connection - Find Word Origins (Easy) • Writing Connection - TE page 334 • Make Connections - TE page 344A <ul style="list-style-type: none"> ○ Writing Connection - Write a Story (Average) • Writing Connection - TE page 361 	
<ul style="list-style-type: none"> • Writing Connection - TE page 362 • Writing Connection - TE page 369 • Writing Connection - TE page 377 • Make Connections - TE page 384A <ul style="list-style-type: none"> ○ Language Arts Connection - List Opaque, Transparent, and Translucent Materials and Objects (Easy) 	<p><i>Journeys Connections</i></p> <ul style="list-style-type: none"> • Lesson 1 <ul style="list-style-type: none"> ○ Whole Group: Anchor Text: Package for Mrs. Jewls (T29) ○ Whole Group: Reader’s Theater: Questioning Gravity (T39) ○ Small Group: Vocabulary Reader: Sports & Motion (T63)

ACADEMIC CONNECTIONS TO OTHER DISCIPLINES *cont.*

MATH: Math Expressions

- Math Connection - TE page 289
- *Math Expressions Connections:*
 - Unit 1 Lesson 4: Strategies for Comparing Fractions MX TE pages 26-32
- Math Connection - TE page 291
- *Math Expressions Connections:*
 - Unit 7 Lesson 3: Evaluate Expressions MX TE page 571
- Make Connections - TE page 300A
- Math Connection - Draw Conclusions (Easy)
- *Math Expressions Connections:*
 - Unit 1 Lesson 12: Real World Problems MX TE pages 88-90
 - Unit 3 Lesson 8: Solve Real World Problems MX TE page 246
 - Unit 3 Lesson 11: Solve Division Problems MX TE pages 265-266
 - Unit 3 Lesson 12: Distinguish Multiplication from Division MX TE pages 270, 273
 - Unit 4 Lesson 8: Multiply with Decimals Greater Than 1 MX TE page 349
 - Unit 4 Lesson 11: Multiplication Practice MX TE pages 371-372
 - Unit 5 Lesson 4: Interpret Remainders MX TE pages 410-412
 - Unit 5 Lesson 5: Division Practice MX TE pages 419-420
 - Unit 6 Lesson 1: Situation and Solution Equations for Addition and Subtraction MX TE pages 474-477
 - Unit 6 Lesson 2: Situation and Solution Equations for Multiplication and Division MX TE pages 482-486
 - Unit 6 Lesson 5: Language of Comparison Problems MX TE pages 504-508
 - Unit 6 Lesson 6: Multiplicative Comparison Problems MX TE pages 512-516
 - Unit 6 Lesson 7: Types of Comparison Problems MX TE pages 520-524
 - Unit 8 Lesson 1: Convert Metric Units of Length MX TE pages 612-614
 - Unit 8 Lesson 2: Metric Units of Liquid Volume MX TE pages 619-620
 - Unit 8 Lesson 3: Metric Units of Mass MX TE pages 625-626
 - Unit 8 Lesson 4: Customary Units of Length MX TE page 632
 - Unit 8 Lesson 5: Customary Measures of Liquid Volume MX TE page 638
 - Unit 8 Lesson 6: Customary Units of Weight MX TE page 644
- Math Connection - TE page 308
- *Math Expressions Connections:*
 - Unit 6 Lesson 1: Situation and Solution Equations for Addition and Subtraction MX TE pages 474-478
 - Unit 6 Lesson 2: Situation and Solution Equations for Multiplication and Division MX TE pages 482-486
 - Unit 6 Lesson 8: Equations and Parentheses MX TE pages 528-529
- Math Connection - TE page 321
- Make Connections - TE page 330A
- Math Connection - Calculate Lightning Strikes (Challenging)
- *Math Expressions Connections:*
 - Unit 1 Lesson 12: Real World Problems MX TE pages 88-90
 - Unit 3 Lesson 8: Solve Real World Problems MX TE page 246
 - Unit 3 Lesson 11: Solve Division Problems MX TE pages 265-266
 - Unit 3 Lesson 12: Distinguish Multiplication from Division MX TE pages 270, 273
 - Unit 4 Lesson 8: Multiply with Decimals Greater Than 1 MX TE page 349
 - Unit 4 Lesson 11: Multiplication Practice MX TE pages 371-372
 - Unit 5 Lesson 4: Interpret Remainders MX TE pages 410-412
 - Unit 5 Lesson 5: Division Practice MX TE pages 419-420
 - Unit 6 Lesson 1: Situation and Solution Equations for Addition and Subtraction MX TE pages 474-477
 - Unit 6 Lesson 2: Situation and Solution Equations for Multiplication and Division MX TE pages 482-486
 - Unit 6 Lesson 5: Language of Comparison Problems MX TE pages 504-508
 - Unit 6 Lesson 6: Multiplicative Comparison Problems MX TE pages 512-516
 - Unit 6 Lesson 7: Types of Comparison Problems MX TE pages 520-524
 - Unit 8 Lesson 1: Convert Metric Units of Length MX TE pages 612-614
 - Unit 8 Lesson 2: Metric Units of Liquid Volume MX TE pages 619-620
 - Unit 8 Lesson 3: Metric Units of Mass MX TE pages 625-626
 - Unit 8 Lesson 4: Customary Units of Length MX TE page 632
 - Unit 8 Lesson 5: Customary Measures of Liquid Volume MX TE page 638
 - Unit 8 Lesson 6: Customary Units of Weight MX TE page 644

ACADEMIC CONNECTIONS TO OTHER DISCIPLINES *cont.*

MATH: Math Expressions

- Math Connection - TE page 339
- *Math Expressions Connections:*
 - Unit 3 Lesson 14: Focus on Mathematical Practices MX TE pages 284-285
- Math Connection - TE page 359
- *Math Expressions Connections:*
 - Unit 8 Lesson 7: Read and Make Line Plots MX TE pages 648-650
- Math Connection - TE page 381
- *Math Expressions Connections:*
 - Unit 4 Lesson 1: Shift Patterns in Multiplication MX TE pages 294-302
 - Unit 4 Lesson 2: Patterns with Fives and Zeros MX TE pages 306-308
 - Unit 4 Lesson 3: Sharing Methods for Multiplication MX TE pages 312-314
 - Unit 4 Lesson 4: Multiply Two-Digit Numbers MX TE pages 318-322
 - Unit 4 Lesson 5: Practice Multiplication MX TE page 326
 - Unit 6 Lesson 2: Situation and Solution Equations for Multiplication and Division MX TE pages 482-486
- Make Connections - TE page 384A
- Math Connection - Explain a Camera's Settings Strikes (Challenging)