QUARTER 1 (part 1)

SUGGESTED PACING

SCIENCE INQUIRY AND APPLICATION

Content Statements: During the years of PreK-4, all students must become proficient in the use of the following scientific processes, with appropriate laboratory safety techniques, to construct their knowledge and understanding in all science content areas:

- Observe and ask questions about the natural environment
- Plan and conduct simple investigations
- Employ simple equipment and tools to gather data and extend the senses
- Use appropriate mathematics with data to construct reasonable explanations
- Communicate about observations, investigations and explanations
- Review and ask questions about the observations and explanations of others

STRAND: EARTH AND SPACE SCIENCE (ESS)

Topic: Earth's Resources

This topic focuses on Earth's resources. While resources can be living and nonliving, within this strand, the emphasis is on Earth's nonliving resources, such as water, air, rock, soil and the energy resources they represent.

Content Statements:

- Earth's nonliving resources have specific properties.
- Soil is composed of pieces of rock, organic material, water and air and has characteristics that can be measured and observed.
- Rocks have unique characteristics that allow them to be sorted and classified.
- Rocks form in different ways. Air and water are nonliving resources.

PRINT RESOURCES	DIGITAL RESOURCES
 ScienceFusion Unit 1, TE pages 1A-1M; 1-52 Unit 3, Lessons 3-4 Unit 3, TE pages 109A-134A Unit 3, Inquiry Flip Chart pages 20-21 	 ScienceFusion Unit 1, Digital Lessons Unit 3, Lesson 3 Digital Lesson Unit 3, Lesson 4 Digital Lesson

SCIENCE AND ACADEMIC VOCABULARY

Unit 1: Bar Graph, Chart, Data Table, Data, Empirical Evidence, Experiment, Graduated Cylinder, Hypothesis, Infer, Investigation, Map, Microscope, Model, Observe, Predict, Temperature, Variable

Unit 3: Clay, Humus, Mineral, Nutrients, Rock, Sand, Silt, Soil

DIFFERENTIATION	FIELD EXPERIENCE CONNECTIONS
 Basic (Extra Support) Unit 3 Response to Intervention - TE page 89K Unit 3 TE pages 115, 116, 122, 125, 127 Advanced (Enrichment) Unit 3 TE pages 115, 116, 122, 125, 127 English Language Learners Unit 3 TE pages 89L-89M, 112, 113, 124, 128, 131 	Greater Cleveland Aquarium's N.E.M.O: Nurturing the Environment by Maintaining Ohio Program. <i>Program details:</i> Aquatic animal adaptation investigation. Use STEM design to build a model fish to live in a specific habitat, Predict how environmental changes may affect fish. To prepare in advance-attend two professional development sessions to receive Classroom Aquarium and a flash drive with year-long curriculum connections. For information contact: Ray Patacca & Erin Bauer 216-862-8803 x7703 or <u>education@greaterclevelandaquarium.com</u>
INQUIRY SKILLS	
 Compare Draw Conclusions Formulate or Use Models Gather, Record, Display, or Interpret Data 	 Infer Observe Plan and Conduct a Simple Investigation Predict
HANDS-ON INQUIRY AND APPLICATION	
 "Making Rocks" (Flipchart page 20, TE pages 89G, 109A) "Test-A-Rock" (Flipchart page 20, TE 89G, 109A) 	 "Forming Soil" (Flipchart page 21, TE page 89H, 121A) "Compost It!" (Flipchart page 21, TE page 89H, 121A)

<u>GRADE 3</u>

QUARTER 1 (part 1)

ASSESSMENTS/PROGRESS MONITORING	ASSESSMENT GUIDE
 Sum it Up Unit 3, Lesson 3 - SE page 118, TE page 118 Unit 3, Lesson 4 - SE page 132, TE page 132 Brain Check and Apply Concepts 	Lesson Quiz O Unit 3, Lesson 3 - page AG 27 O Unit 3, Lesson 4 - page AG 28
 Unit 3, Lesson 3 - SE pages 119-120, TE pages 119-120 Unit 3, Lesson 3 - SE pages 133-134, TE pages 133-134 ACADEMIC CONNECTIONS TO OTHER DISCIPLINES: ELA 	
ACADEMIC CONNECTIONS TO OTHER DISCIPLINES. ELA	
Journeys Writing Connection - TE page 117 Make Connections - TE page 120A Language Arts Connection - Rock Collecting (Average) Writing Connection - TE page 123 Writing Connection - TE page 126 	 Writing Connection - TE page 129 Make Connections - TE page 134A Writing Connection - Picture Dictionary (Easy) Writing Connection - A Worm's Tale (Average) Writing Connection - TE page 138
ACADEMIC CONNECTIONS TO OTHER DISCIPLINES: MATH	
 Math Expressions Math Connection - TE page 111 Math Expressions Connections: Unit 1 Lesson 2: Multiplication as Equal Groups MX TE page Unit 1 Lesson 6: Building Fluency with 2s and 5s MX TE page Unit 1 Lesson 9: Building Fluency with 2s, 5s, 9s, and 10s MX Unit 1 Lesson 14: Building Fluency with 2s, 3s, 4s, 5s, 9s, an Unit 1 Lesson 16: Solve and Create Word Problems MX TE page Unit 1 Lesson 16: Solve and Create Word Problems MX TE page Unit 1 Lesson 16: Solve and Create Word Problems MX TE page 10: Lesson 4: Write Word Problems and Equations MX TE Unit 2 Lesson 7: Practice with 6s, 7s, and 8s MX TE page 23 Unit 3 Lesson 10: Solve Word Problems Involving Time MX T Unit 3 Lesson 10: Solve Word Problems Involving Time MX TE Unit 4 Lesson 3: Place Value in Word Problems MX TE page Unit 4 Lesson 3: Place Value in Word Problems MX TE page Unit 4 Lesson 9: The Grouping Concept in Addition MX TE page Unit 4 Lesson 17: Solve Word Problems MX TE pages 538-55 Unit 5 Lesson 11: Addition and Subtraction Situations MX TE pages 538-755 Unit 5 Lesson 5: Comparison Problems MX TE pages 587-55 Unit 5 Lesson 6: Word Problems with Unknown Addends or U Unit 5 Lesson 11: Read and Create Pictographs and Bar Gra Unit 3 Lesson 11: Read and Create Pictographs and Bar Gra Unit 3 Lesson 12: Read and Create Bar Graphs with Multidig Unit 3 Lesson 12: Read and Create Bar Graphs with Multidig Unit 5 Lesson 2: Word Problems with Unknown Addends or U Unit 5 Lesson 12: Read and Create Bar Graphs with Multidig Unit 5 Lesson 12: Read and Create Bar Graphs with Multidig Unit 5 Lesson 12: Read and Create Bar Graphs with Multidig Unit 5 Lesson 12: Word Problems with Unknown Addends or U 	e 60 X TE page 85 d 10s MX TE pages 85-86 bages 147-148 , 9s, and 10s MX TE pages 159-160 E pages 204-208 0 FE pages 367-368 ent Word Problems MX TE pages 396-398 es 432-434 age 478 42 pages 556-561 Jnknown Factors MX TE pages 568-572 E pages 576-580 94 puage MX TE pages 598-600 Enough Information MX TE pages 604-608 aphs MX TE pages 374-378 it Numbers MX TE pages 382-386 ent Word Problems MX TE pages 396-398 pages 556-561 Jnknown Factors MX TE pages 396-398 pages 556-561 Jnknown Factors MX TE pages 568-572