

### THIRD GRADE SCIENCE CURRICULUM MAP

**First Trimester: August 22 – November 16**

#### “The Nature of Science and S.T.E.M.”

| UNIT                            | LESSON   | FOCUS   |
|---------------------------------|--|---|
| Unit 1: Investigating Questions | Lesson 1: How Do Scientists Investigate Questions? | <ul style="list-style-type: none"> <li>a. Mystery Box / Magnet Mysteries</li> <li>b. What is Science?</li> <li>c. What Do You See?</li> <li>d. Getting Answers / Investigating Answers</li> <li>e. Evaluation: Sum It Up / Brain Check</li> </ul>   |
| Unit 1: Investigating Questions | Inquiry Lesson 2: How Can You Use a Model?         | <ul style="list-style-type: none"> <li>a. How Can You Use a Model?</li> </ul>   |
| Unit 1: Investigating Questions | Lesson 3: How Do Scientists Use Tools?             | <ul style="list-style-type: none"> <li>a. I Can See Clearly Now / Talented Tools</li> <li>b. Measure It!                             <ul style="list-style-type: none"> <li>● Length, Mass, and Volume</li> </ul> </li> <li>c. Time and Temperature</li> <li>d. Evaluation: Sum It Up / Braincheck</li> </ul> |
| Unit 1: Investigating Questions | Inquiry Lesson 4: How Can You                      | <ul style="list-style-type: none"> <li>a. How Can You Measure</li> </ul>  |

|                                  | Measure Length?                                    | Length?   |
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| Unit 1 : Investigating Questions | Lesson 5: How Do Scientists Use Data?              | <ul style="list-style-type: none"> <li>a. Data Two Ways / Raise the Bar</li> <li>b. Show Me Evidence</li> <li>c. Communicating Data</li> <li>d. How To Do It!</li> <li>e. Why Graphs?</li> <li>f. Evaluation: Sum It Up / Braincheck</li> </ul> |
| Unit 1: Investigating Questions  | Inquiry Lesson 6: How Do Your Results Compare?     | <ul style="list-style-type: none"> <li>a. How Do Results Compare?</li> </ul>  |
| Unit 1: Investigating Questions  | Lesson: Review / Performance Task                  | <ul style="list-style-type: none"> <li>a. Unit Review</li> <li>b. Assessment</li> </ul>   |
| Unit 2: The Engineering Process  | Lesson 1: How Do Engineers Use the Design Process? | <ul style="list-style-type: none"> <li>a. Chill Out / Science Solutions</li> <li>b. The Design Process</li> <li>c. Finding A Problem Planning and Building</li> <li>d. Evaluation: Braincheck</li> </ul>  |
| Unit 2: The Engineering Process  | Inquiry Lesson 2: How Can You Design A Tree House? | <ul style="list-style-type: none"> <li>a. How Can You Design A Tree House?</li> </ul>   |
| Unit 2: The Engineering Process  | Lesson 3: How Are Technology and Society Related?  | <ul style="list-style-type: none"> <li>a. Modes of Transportation / How Can You Move?</li> <li>b. Technology Through Time</li> <li>c. Technology and Society:</li> </ul>  |

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|                                 |  | How does technology affect you?<br>d. Evaluation: Braincheck |
| Unit 2: The Engineering Process | Inquiry Lesson 4: How Can We Improve a Design? | a. How Can We Improve Design?                                |
| Unit 2: The Engineering Process | Lesson: Review / Performance Task              | Unit Review Assessment                                       |

**“Life Science”**

| <b>UNIT</b>                | <b>LESSON</b>                                  | <b>FOCUS</b>  |
|----------------------------|--|---|
| Unit 3: Plants and Animals | Lesson 1: What Are Some Plant Life Cycles?     | a. The Cycle of the Plant’s Life<br>b. Small Wonders More and More Spores<br>c. Plant Leveled Readers and Activities  |
| Unit 3: Plants and Animals | Lesson 2: What Are Some Animal Life Cycles?    | a. Model a Life Cycle / Plan A Life Cycle Observation<br>b. Animal Life Cycles<br>c. Frog Life Cycle<br>d. Insect Life Cycles<br>e. Evaluation: Braincheck / Quiz |
| Unit 3: Plants and Animals | Inquiry Lesson 3: How Do Living Things Change? | a. How Do Living Things Change?<br>b. Inquiry   |

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| Unit 3: Plants and Animals         | Lesson 4: What Are Structural Adaptations?                 | <ul style="list-style-type: none"> <li>a. Staying Alive and Staying Safe</li> <li>b. Creature Costumes: Plant Facts</li> </ul>  |
| Unit 3: Plants and Animals         | Inquiry Lesson 5: How Can We Model a Physician Adaptation? | <ul style="list-style-type: none"> <li>a. How Can We Model a Physician Adaptation?</li> </ul>   |
| Unit 3: Plants and Animals         | Lesson 6: What Are Behavioral Adaptations?                 | <ul style="list-style-type: none"> <li>a. Instinct or Learned Behavior: Know It / Learn It</li> <li>b. Finding Food and Shelter<br/>Hibernation</li> <li>c. Migration and Instinct</li> <li>d. Learned Behavior Inquiry</li> </ul>  |
| Unit 3: Plants and Animals         | Lesson: Review / Performance Task                          | <ul style="list-style-type: none"> <li>a. Unit Review</li> <li>b. Assessment</li> </ul>   |
| Unit 4: Ecosystem and Interactions | Lesson 1: What Are Ecosystem?                              | <ul style="list-style-type: none"> <li>a. Forest Variety / Dig Into Ecosystem</li> <li>b. Animals and Plants at Home</li> <li>c. Communities of Populations</li> <li>d. Living on the Land / Under the Water</li> <li>e. Ecosystems Leveled Readers and Activities</li> </ul> |
| Unit 4: Ecosystem and Interactions | Inquiry Lesson 2: What's An Ecosystem?                     | <ul style="list-style-type: none"> <li>a. What's An Ecosystem?</li> </ul>   |

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| Unit 4: Ecosystem and Interactions | Lesson 3: What is a Food Chain?                              | <ul style="list-style-type: none"> <li>a. Soak Up the Sun Nature’s Dinnertime</li> <li>b. Food Chains: What’s for dinner?</li> <li>c. Food Chains Leveled Reader and Activities</li> </ul> |
| Unit 4: Ecosystem and Interactions | Inquiry Lesson 4: What Are Some Food Chains?                 | <ul style="list-style-type: none"> <li>a. What Are Some food Chains?</li> </ul>  |
| Unit 4: Ecosystem and Interactions | Lesson 5: How Do Environmental Changes Affect Living Things? | <ul style="list-style-type: none"> <li>a. Fragile Ecosystems / The Right Amount of Water</li> <li>b. Natural Changes / People and Environment</li> <li>c. Evaluation: Quiz</li> </ul>      |
| Unit 4: Ecosystem and Interactions | Lesson: Review / Performance Task                            | <ul style="list-style-type: none"> <li>a. Unit Review</li> <li>b. Assessment</li> </ul>  |

Second Trimester: November 17 – March 8

**“Earth and Space Science”**

| <b>UNIT</b>                        | <b>LESSON</b>                      | <b>FOCUS</b>   |
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| Unit 5: Changes to Earth’s Surface | Lesson 1: What Are Some Landforms? | <ul style="list-style-type: none"> <li>a. Folding Up Mountains / Making Other Landforms</li> <li>b. Changes to Earth’s Surface / Down in Low Places</li> <li>c. Climbing High Above /</li> </ul> |

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|                                    |  | Rolling Along the Flats<br>d. Evaluation: Braincheck  |
| Unit 5: Changes to Earth's Surface | Lesson 2: How Does Earth's Surface Change Slowly?  | a. What Can Weathering Do?<br>b. Erosion Motion<br>c. Evaluation: Braincheck  |
| Unit 5: Changes to Earth's Surface | Inquiry Lesson 3: How Can We Model Erosion?        | a. How Can We Model Erosion?  |
| Unit 5: Changes to Earth's Surface | Lesson 4: How Does Earth's Surface Change Quickly? | a. A Model Volcano<br>b. Earthquake / Volcanoes<br>c. Big Change<br>d. Evaluation: Braincheck<br>e. Changes to Earth's Surface<br>Leveled Readers and<br>Activities |
| Unit 5: Changes to Earth's Surface | Lesson: Review / Performance Task                  | a. Review<br>b. Assessment  |
| Unit 6: People and Resources       | Lesson 1: What Are Some Natural Resources?         | a. Polluted Plants / Clean It Up!<br>b. Natural Resources: Going, Going, Gone<br>c. How Do We Use It?<br>d. The Effects of Pollution<br>e. Evaluation: Braincheck   |
| Unit 6: People and Resources       | Inquiry Lesson 2: How Can We Conserve Resources?   | a. How Can We Conserve Resources?   |

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|                              |                                   | <ul style="list-style-type: none"> <li>b. Conserving Resources<br/>Leveled Readers and<br/>Activities</li> </ul>  |
| Unit 6: People and Resources | Lesson 3: What Is Soil?           | <ul style="list-style-type: none"> <li>a. Soil: How Does Soil Form?</li> <li>b. Types of Soil: Studying Plant<br/>Soils Inquiry</li> <li>c. Plants Need Soil Composting</li> <li>d. Evaluation: Quiz</li> </ul> |
| Unit 6: People and Resources | Lesson: Review / Performance Task | <ul style="list-style-type: none"> <li>a. Review</li> <li>b. Assessment</li> </ul>  |

### Third Trimester: March 9 – June 7

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| Unit 7: Water and Weather  | Lesson 1: What is a Water Cycle?                  | <ul style="list-style-type: none"> <li>a. Weather in A Box</li> <li>b. Water Moves All Around</li> <li>c. Three Forms of Water</li> <li>d. Water Cycle Leveled Reader and Activities</li> </ul>                 |
| Unit 7: Water and Weather  | Lesson 2: What is Weather?                        | <ul style="list-style-type: none"> <li>a. A World of Weather</li> <li>b. Types of Clouds</li> <li>c. Measuring Weather</li> <li>d. Watch Out for Weather</li> <li>e. Evaluation: Braincheck</li> </ul>          |
| Unit 7: Water and Weather  | Inquiry Lesson 3: How Can We Measure Weather?     | <ul style="list-style-type: none"> <li>a. How Can We Measure Weather?</li> <li>b. Evaluation: Design a wind streamer - Quiz</li> </ul>  |
| Unit 7: Water and Weather  | Lesson: Review / Performance Task                 | <ul style="list-style-type: none"> <li>a. Review</li> <li>b. Assessment</li> </ul>  |
| Unit 8: Earth and Its Moon | Lesson 1: How Do Earth and the Moon Move?         | <ul style="list-style-type: none"> <li>a. Turning Through the Day</li> <li>b. Reasons for Seasons</li> <li>c. Phases of the Moon</li> <li>d. Daily Highs and Lows</li> <li>e. Evaluation: Braincheck</li> </ul> |
| Unit 8: Earth and Its Moon | Inquiry Lesson 2: How Can We Model Moon's Phases? | <ul style="list-style-type: none"> <li>a. How Can We Model Moon's Phases?</li> </ul>  |



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|                            |                                   | b. Evaluation: Quiz        |
| Unit 8: Earth and Its Moon | Lesson: Review / Performance Task | a. Review<br>b. Assessment |

**“Physical Science”**

| UNIT           | LESSON   | FOCUS   |
|----------------|--|---|
| Unit 9: Matter | Lesson 1: What Are Some Physical Properties?               | a. Find the Volume / Sort SOME Matter<br>b. It’s Everything<br>c. How Much Mass?<br>d. What’s the Volume?<br>e. Hot and Cold<br>f. Evaluation: Braincheck |
| Unit 9: Matter | Lesson 2: What Are the States of Matter?                   | a. What’s the State?<br>b. Cool It’s Freezing<br>c. Just Add Heat<br>d. Now You See It<br>e. Make Water Evaporate<br>Inquiry<br>f. Evaluation: Quit       |
| Unit 9: Matter | Inquiry Lesson 3: What Physical Properties Can We Observe? | a. What Physical Properties Can We Observe?   |
| Unit 9: Matter | Lesson 4: What Are Some Changes to Matter?                 | a. Physical Changes<br>b. Mixtures and Solutions  |

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|                                       |   | <ul style="list-style-type: none"> <li>c. Properties of Matter</li> <li>d. Chemical Changes</li> <li>e. Evaluation: Braincheck</li> </ul>  |
| Unit 9: Matter                        | Inquiry Lesson 5: What Changes Can We Observe?        | <ul style="list-style-type: none"> <li>a. What Changes Can We Observe?</li> </ul>  |
| Unit 9: Matter                        | Lesson: Review / Performance Task                     | <ul style="list-style-type: none"> <li>a. Review</li> <li>b. Assessment</li> </ul>   |
| Unit 10: Simple and Compound Machines | Lesson 1: What Are Simple Machines?                   | <ul style="list-style-type: none"> <li>a. How Can We Use Simple Machines?</li> <li>b. Levers Help You Lift</li> <li>c. Using A Wheel - and - Axle</li> <li>d. Pulley Power</li> <li>e. Evaluation: Braincheck</li> </ul> |
| Unit 10: Simple and Compound Machines | Lesson 2: What Are Some Other Simple Machines?        | <ul style="list-style-type: none"> <li>a. Wrapt It Up / Everyday Machines</li> <li>b. Moving In, Digging Up</li> <li>c. All Wrapped Up</li> <li>d. How Can Simple Machines Work Together?</li> </ul>                     |
| Unit 10: Simple and Compound Machines | Inquiry Lesson 3: How Do Simple Machines Affect Work? | <ul style="list-style-type: none"> <li>a. How Do Simple Machines Affect Work?</li> </ul>   |
| Unit 10: Simple and Compound Machines | Lesson: Review / Performance Task                     | <ul style="list-style-type: none"> <li>a. Review</li> <li>b. Assessment</li> </ul>   |

