

# STEMs TO SUNSHINE

## Common Core Maps

### ELA

- Reading Strands for Literature
  - 2. Determine a theme of a story, drama, or poem from details in the text; summarize the text.
- Reading Strands for Informational Text
  - 2. Determine the main ideas of a text and explain how it is supported by key details; summarize the text
- Writing
  - 1. Write opinion pieces, in which they introduce the topic or name the book they are writing about, state an opinion, supply a reason for the opinion, and provide some sense of closure.
  - 2. Write informative/ explanatory texts to examine a topic and convey ideas and information clearly.
  - 7. Conduct short research projects that build knowledge through investigation of different aspects of a topic.
- Speaking and Listening
  - 1. Engage effectively in a range of collaborative discussions with diverse partners on grade four topics and texts, building on others' ideas and expressing their own clearly.

### MATH

- Measurement and Data
  - 2. Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.
  - 4. Make a line plot to display a data set of measurements in fractions of a unit ( $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$ ). Solve problems involving addition and subtraction of fractions by using information presented in line plots. For example, from a line plot find and interpret the difference in length between the longest and shortest specimens in an insect collection.
- Geometry
  - 1. Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.
  - 2. Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.
  - 3. Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.

4th Grade  
Solar Synergy:  
The Source of  
Interdependence