

Approved Facility Schools
Appendix 1
Science Connections to Common Core State Standards
4th Grade

ELA/Literacy:

- **RI.4.1** Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text. (4-PS3-1) (4-PS4-3) (4-ESS3-2)
- **RI.4.3** Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text. (4-PS3-1)
- **RI.4.7** Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, time lines, animations, or interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it appears. (4-ESS2-2)
- **RI.4.9** Integrate information from two texts on the same topic in order to write or speak about the subject knowledgeably. (4-PS3-1) (4-PS4-3) (4-ESS3-2)
- **W.4.1** Write opinion pieces on topics or texts, supporting a point of view with reasons and information. (4-LS1-1)
- **W.4.2** Write informative/explanatory texts to examine a topic and convey ideas and information clearly. (4-PS3-1)
- **W.4.7** Conduct short research projects that build knowledge through investigation of different aspects of a topic. (4-PS3-2) (4-PS3-3) (4-PS3-4) (4-ESS1-1) (4-ESS2-1) (4-ESS3-1)
- **W.4.8** Recall relevant information from experiences or gather relevant information from print and digital sources; take notes and categorize information, and provide a list of sources. (4-PS3-1) (4-PS3-2) (4-PS3-3) (4-PS3-4) (4-ESS1-1) (4-ESS2-1) (4-ESS3-1)
- **W.4.9** Draw evidence from literary or informational texts to support analysis, reflection, and research. (4-PS3-1) (4-ESS1-1) (4-ESS3-1)
- **SL.4.5** Add audio recordings and visual displays to presentations when appropriate to enhance the development of main ideas or themes. (4-PS4-1) (4-PS4-2) (4-LS1-2)

Mathematics:

- **MP.2** Reason abstractly and quantitatively. (4-ESS1-1) (4-ESS2-1) (4-ESS3-1) (4-ESS3-2)
- **MP.4** Model with mathematics. (4-PS4-1) (4-PS4-2) (4-ESS1-1) (4-ESS2-1) (4-ESS3-1) (4-ESS3-2)
- **MP.5** Use appropriate tools strategically. (4-ESS2-1)
- **4.G.A.1** Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures. (4-PS4-1) (4-PS4-2)

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- **4.G.A.3** Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded across the line into matching parts. Identify line-symmetric figures and draw lines of symmetry. (4-LS1-1)
- **4.MD.A.1** Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. (4-ESS1-1) (4-ESS2-1)
- **4.MD.A.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-ESS2-1) (4-ESS2-2)
- **4.OA.A.1** Interpret a multiplication equation as a comparison, e.g., interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations. (4-ESS3-1) (4-ESS3-2)
- **4.OA.A.3** Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. (4-PS3-4)