

Approved Facility Schools
Appendix 1
Science Connections to Common Core State Standards
Grade 6-8 Life Science

ELA/Literacy:

- **RST.6-8.1** Cite specific textual evidence to support analysis of science and technical texts. (MS-LS1-3) (MS-LS1-4) (MS-LS1-5) (MS-LS1-6) (MS-LS2-1) (MS-LS2-2) (MS-LS2-4) (MS-LS3-1) (MS-LS3-2) (MS-LS4-1) (MS-LS4-2) (MS-LS4-3) (MS-LS4-4) (MS-LS4-5)
- **RST.6-8.2** Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions. (MS-LS1-5) (MS-LS1-6)
- **RST.6-8.4** Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6-8 texts and topics. (MS-LS3-1) (MS-LS3-2)
- **RST.6-8.7** Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table). (MS-LS2-1) (MS-LS3-1) (MS-LS3-2) (MS-LS4-1) (MS-LS4-3)
- **RST.6-8.8** Distinguish among facts, reasoned judgment based on research findings, and speculation in a text. (MS-LS2-5)
- **RST.6-8.9** Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic. (MS-LS4-3) (MS-LS4-4)
- **RI.6.8** Trace and evaluate the argument and specific claims in a text, distinguishing claims that are supported by reasons and evidence from claims that are not. (MS-LS1-3) (MS-LS1-4)
- **RI.8.8** Trace and evaluate the argument and specific claims in a text, assessing whether the reasoning is sound and the evidence is relevant and sufficient to support the claims. (MS-LS-4) (MS-LS2-5)
- **WHST.6-8.1** Write arguments focused on discipline content. (MS-LS1-3) (MS-LS1-4) (MS-LS2-4)
- **WHST.6-8.2** Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content. (MS-LS1-5) (MS-LS1-6) (MS-LS2-2) (MS-LS4-2) (MS-LS4-4)
- **WHST.6-8.7** Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration. (MS-LS1-1)
- **WHST.6-8.8** Gather relevant information from multiple print and digital sources; assess the credibility of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and providing basic bibliographic information for sources. (MS-LS1-8) (MS-LS4-5)
- **WHST.6-8.9** Draw evidence from informational texts to support analysis, reflection, and research. (MS-LS1-5) (MS-LS1-6) (MS-LS2-2) (MS-LS2-4) (MS-LS4-2) (MS-LS4-4)

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- **SL.8.1** Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly. (MS-LS2-2) (MS-LS4-2) (MS-LS4-4)
- **SL.8.4** Present claims and findings, emphasizing salient points in a focused, coherent manner with relevant evidence, sound valid reasoning, and well-chosen details; use appropriate eye contact, adequate volume, and clear pronunciation. (MS-LS2-2) (MS-LS4-2) (MS-LS4-4)
- **SL.8.5** Integrate multimedia and visual displays into presentations to clarify information, strengthen claims and evidence, and add interest. (MS-LS1-2) (MS-LS1-7) (MS-LS2-3) (MS-LS3-1) (MS-LS3-2)

Mathematics:

- **MP.4** Model with mathematics. (MS-LS2-5) (MS-LS3-2) (MS-LS4-6)
- **6.RP.A.1** Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities. (MS-LS4-4) (MS-LS4-6)
- **6.RP.A.3** Use ratio and rate reasoning to solve real-world and mathematical problems. (MS-LS2-5)
- **7.RP.A.2** Recognize and represent proportional relationships between quantities. (MS-LS4-4) (MS-LS4-6)
- **6.SP.A.2** Understand that a set of data collected to answer a statistical question has a distribution that can be described by its center, spread, and overall shape. (MS-LS1-4) (MS-LS1-5)
- **6.SP.B.4** Summarize numerical data sets in relation to their context. (MS-LS1-4) (MS-LS1-5)
- **6.SP.B.5** Summarize numerical data sets in relation to their context. (MS-LS2-2) (MS-LS3-2) (MS-LS4-4) (MS-LS4-6)
- **6.EE.B.6** Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set. (MS-LS4-1) (MS-LS4-2)
- **6.EE.C.9** Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. (MS-LS1-1) (MS-LS1-2) (MS-LS1-3) (MS-LS1-6) (MS-LS2-3)