



7th Science Curriculum

Reading and Writing Standards

Marking Period	Reading Standards	Writing Standards
1	Close Read Science Literacy and reflect on reading	Reflection to include drawing diagrams from reading
2	Create and design a lab, labeling need, materials and evaluation of the outcome.	Collect and analyze data within a science lab, write a summary of the experiment.
3	Close read graphs, tables and charts	Be able to write a summary and create/design graphs, charts and tables relating to the experiment.
4	Close reading and summary of information related to human impact/culture on science in different areas of the world.	Be able to write summaries and come to conclusions as to how different cultures are impacted by science.

Scoring Guide for Written Work

Close read Underline Key Concepts, Circle Confusing Words or Phrases, Marginalia, apply diagram drawing with assessment.

	Underline Key Concepts	Circle Confusing Words/Phrases	Marginalia	Apply to data in classroom
Close Reading Science articles (MS)	Key concepts of article are underlined and defined.	Words are circled and identified. Words are also applied to Jamboard	Thoughts and ideas how it applies to current work with examples	Data received from the classroom has close reading examples throughout



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Close Reading Diagrams	Diagrams have main concepts underlined	Vocab terms are circled and defined	Extra information whether in picture/diagram/graph form are added and identified.	Students are able to create and analyze data from data obtained in the classroom.
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[Science Department Rubric](#)

Content Topics and Pacing

Topic	Duration	Guiding Questions	Reading/Writing Assignments
Chemical Reactions/Matter	25 days	What is matter? How does matter change from one substance to another?	Close Read assignments Recording data Analyzing Data using Jamboard
Chemical Reactions and Energy	21 days	What is energy? How is energy measured? How is energy used to change matter?	Collecting and analyzing data Close reading science articles Close reading graph diagrams
Metabolic Reactions	29 days	How can we use chemical reactions to design a solution to a problem?	Close reading. Inquiry based design with students leading questioning Students creating presentation with analysis of data
Matter Cycling & Photosynthesis	29 days	Where does food come from and where does it go next?	Develop a model and show energy flow of inputs and outputs of a system
Ecosystems Dynamics	33 days	How does changing an ecosystem affect the lives that	Use mathematical and computational reasoning to understand and



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		live there?	determine how to develop a healthy ecosystem
Natural Resources & Human Impact	33 days	How do changes in our Earth's ecosystem impact our communities and what can we do about it?	Make observations and collect long-term data to analyze the effects of human impact on an environment and how we can make a positive impact on the ecosystem.