



8th Science Curriculum

Reading and Writing Standards

Marking Period	Reading Standards	Writing Standards
1	Students will be able to identify different graphs and determine what data is being portrayed.	Students will be able to use close reading skills to determine types of graphs, and key concepts of graph
2	Use observation skills, data, information to develop and design working models using data collected	Create and design models/experiments to support information collected and support science theories/laws
3	Research using data collection and content literacy to design informational poster.	Use content literacy, close reading, citation development and collection to convey messaging regarding chosen topics
4	Collect, inquire, observe information that guides towards critical thinking and analysis of data and information	Create and design modeling of diagrams and mathematical computations

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	Key concepts of article are underlined and	Words are circled and identified. Words are also applied to	Thoughts and ideas how it applies to current work with	Data received from the classroom has close reading



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	defined.	Jamboard	examples	examples throughout
Close Reading Diagrams	Diagrams have main concepts underlined Will be able to identify: key, title, independent and dependent variable, units of measurement	Vocab terms are circled and defined	Extra information weather in picture/diagram/graph form are added and identified.	Students are able to create and analyze data from data obtained in the classroom.

[Science Department Rubric](#)

Content Topics and Pacing

Topic	Duration	Guiding Questions	Reading/Writing Assignments
8.1 Contact Forces	35 days	Why do things sometimes get damaged when they hit each other? Why do some things move when they hit each other?	Close read assignments and graphs within lessons.
8.2 Sound	23 days	How can sound make things move?	Analyze and read diagrams of graphs with amplitude and frequency.
8.3 Forces from a distance	29 days	How can a magnet make other things move without touching it?	Be able to apply magnetic and energy knowledge and develop models that use magnets and transfer of energy
8.4 Earth in Space	30 days	How are we connected to the patterns we see in the sky and	Read, analyze, create and design diagrams that show how space and



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		space?	planetary objects interact and perceived in space and on Earth
8.5 Genetics	27 days	Why are living things different from one another?	Use observational skills, data collection, summary, analysis of collected information.
8.6 Natural Selection and Common Ancestry	27 days	How can things living today be connect to things living long time ago?	Collect, evaluate, communicate information about structures and how those work for past and present organisms in their environments