6th Science Curriculum

Reading and Writing Standards

Marking Period	Reading Standards	Writing Standards
1	Close Read Science Literacy - Topic- Light and matter	Reflection - Students build a scale model to test ideas that explain the role of light in a 1-way mirror
2	Students will read about the topic of what causes weather and how weather changes	Reflection - Students will create a diagram that shows how different weather patterns change
3	Students investigate locations that are known to have earthquakes and they notice landforms, such as mountains. They read texts, explore earthquake and landform patterns using a data visualization tool, and study GPS data at these locations.	Students develop an Earth model and study mantle convection motion to explain how Earth's surface could move from processes below the surface. From this, students develop models to explain different ways plates collide and spread apart
4	Students will read about ways to detect tsunamis, warn people, and reduce damage from the wave.	As students design solutions to solve this problem, they begin to wonder about the natural hazard itself: what causes it, where it happens, and how it causes damage

Scoring Guide for Written Work
Close readUnderline 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

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Close Reading Science articles	**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**
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.**

[Science Literacy Rubric]

Content Topics and Pacing

Topic	Duration	Guiding Questions	Reading/Writing Assignments
Light & Matter	**25 days**	**Why do we sometimes see different things when looking at the same object?**	Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials. Gather and synthesize information
Thermal Energy	**21 days**	**How can containers keep stuff from warming up or cooling down?**	Construct, use, and present arguments to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object.

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Weather, Climate, & Water Cycle	**40 days**	**Why does a lot of hail, rain, or snow fall at some times and not others?**	Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.
Plate Tectonics & Rock Cycle	**29 days**	**What causes Earth's surface to change?**	Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6-billion-year-old history.
Natural Hazards	**22 days**	**Where do natural hazards happen and how do we prepare for them?**	Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.
Cells & Systems	**33 days**	**How do living things heal?**	Use an argument supported by evidence for how the body is a system of interacting subsystems composed of groups of cells.