

Standards Alignment: Team Breakdown

Team	Next Generation Science Standards	Common Core Standards
ROV	<p>MS-ETS1-2: Evaluate competing design solutions using a systematic process to determine how well they meet criteria and constraints of the problem.</p> <p>MS-ETS1-3: Analyze data from tests to determine similarities and differences among several design solutions to identify best characteristics of each can be combined into a new solution to better meet the criteria for success.</p>	<p>MP.2: Reason abstractly and quantitatively.</p> <p>RST.6-8.1: Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.</p> <p>RST.6-8.9: Draw evidence from informational texts to support analysis, reflection, and research.</p>
BOT	<p>MS-ESS1-1: Develop and use model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons</p>	<p>RST.6-8.1: Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.</p> <p>SL.8.5: Include multimedia components and visual displays in presentations to clarify claims and findings and emphasize salient points.</p> <p>RST.6-8.7: Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually.</p> <p>MP.2: Reason abstractly and quantitatively.</p> <p>RST.6-8.9: Draw evidence from informational texts to support analysis, reflection, and research.</p>
LS	<p>MS-LS1-5: Construct a scientific explanation based on evidence for how environmental and genetic factors influence the growth of organisms.</p>	<p>RST.6-8.3: Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.</p> <p>RST.6-8.1: Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.</p> <p>SL.8.5: Include multimedia components and visual displays in presentations to clarify claims and findings and emphasize salient points.</p> <p>RST.6-8.7: Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually.</p> <p>MP.2: Reason abstractly and quantitatively.</p> <p>RST.6-8.9: Draw evidence from informational texts to support analysis, reflection, and research.</p>
GEO	<p>MS-PS3-3: Apply scientific principles to design, construct, and test a device that either minimizes or maximizes thermal energy transfer.</p> <p>MS-ESS3-2: Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.</p>	<p>RST.6-8.3: Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.</p> <p>RST.6-8.7: Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually.</p> <p>MP.2: Reason abstractly and quantitatively.</p> <p>RST.6-8.9: Draw evidence from informational texts to</p>

		support analysis, reflection, and research.
Communications		
Astrobiology	MS-PS4-1: Use mathematical representations to describe a simple model for waves that includes how the amplitude of a wave is related to the energy in a wave.	RST.6-8.3: Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks. RST.6-8.7: Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually. MP.2: Reason abstractly and quantitatively. MP.4: Model with mathematics. RST.6-8.9: Draw evidence from informational texts to support analysis, reflection, and research.
Medical:	MS-LS1-5: Construct a scientific explanation based on evidence for how environmental and genetic factors influence the growth of organisms.	RST.6-8.1: /cite specific textual evidence to support analysis of science and technical texts. RST.6-8.2: Determine the central idea or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions. RST.6-8.9: Draw evidence from informational texts to support analysis, reflection, and research.
-Space Weather	MS-PS2-5: Conduct an investigation and evaluate the experimental design to provide evidence that fields exist between objects exerting forces on each other even through the objects are not in contact.	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. SL.8.5: Include multimedia components and visual displays in presentations to clarify claims and findings and emphasize salient points. RST.6-8.7: Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually. MP.2: Reason abstractly and quantitatively. RST.6-8.9: Draw evidence from informational texts to support analysis, reflection, and research.
Navigation	MS-PS2-4: Construct and present arguments using evidence to support the claim that gravitational interactions are attractive and depend on the masses of interacting objects. MS-PS3-1: Construct and interpret graphical displays of data to describe the relationships of kinetic energy to the mass of an object and to the speed of an object.	RST.6-8.7: Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually. WHST.6-8.1: Write arguments focused on discipline-specific content. MP.2: Reason abstractly and quantitatively. RST.6-8.9: Draw evidence from informational texts to support analysis, reflection, and research.
HAZ	MS-ETS1-1: Define the criteria and constraints of a design problem with sufficient precision to ensure a successful solution, taking into account relevant scientific principles and potential impacts on people and the	RST.6-8.7: Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually. MP.2: Reason abstractly and quantitatively.

natural environment that may limit possible solutions.

MS-ETS1-2: Evaluate competing design solutions using a systematic process to determine how well they meet criteria and constraints of the problem.

MS-ETS1-3: Analyze data from tests to determine similarities and differences among several design solutions to identify best characteristics of each can be combined into a new solution to better meet the criteria for success.

RST.6-8.9: Draw evidence from informational texts to support analysis, reflection, and research.