During Earth Odyssey, students are exposed to the following national standards.

Next Generation Science Standards by Team		COM	NAV	ROV	WX	MED	BIO	BOT	LS	GEO
MS-ESS2-1	Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process.									★
MS-ESS2-2	Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales.									★
MS-ESS2-5	Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.				★					
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.		★		★					★
MS-ESS3-5	Ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century.	★	★	★	★	★	★	★	★	★
MS-ETS1-2	Evaluate competing design solutions using a systematic process to determine how well they meet the criteria and constraints of the problem.							★		
MS-LS1-5	Construct a scientific explanation based on evidence for how environmental and genetic factors influence the growth of organisms.						★			
MS-LS4-4	Construct an explanation based on evidence that describes how genetic variations of traits in a population increase some individuals' probability of surviving and reproducing in a specific environment.						★			
MS-SEP-P2	Develop and/or use a model to generate data to test ideas about phenomena in natural or designed systems, including those representing inputs and outputs, and those at unobservable scales.				★		★	★		
MS-SEP-P3	Conduct an investigation and/or evaluate and/or revise the experimental design to produce data to serve as the basis for evidence that meet the goals of the investigation.				★	★	★		★	★
MS-SEP-P3	Collect data to produce data to serve as the basis for evidence to answer scientific questions or test design solutions under arange of conditions.								★	
MS-SEP-P3	Collect data about the performance of a proposed object, tool, process or system under a range of conditions.							★		
MS-SEP-P4	Analyze and interpret data to determine similarities and differences in findings.	★	★	★	★	★	★	★	★	★
MS-SEP-P4	Use graphical displays (e.g., maps, charts, graphs, and/or tables) of large data sets to identify temporal and spatial relationships.	★	★	★	★	★	★	★	★	★
MS-SEP-P4	Construct, analyze, and/or interpret graphical displays of data and/or large data sets to identify linear and nonlinear relationships.	★	★	★	★	★	★	★	★	★
MS-SEP-P5	Apply mathematical concepts and/or processes (e.g., ratio, rate, percent, basic operations, simple algebra) to scientific and engineering questions and problems.		★	★	★					

Common Core State Standads by Team		COM	NAV	ROV	WX	MED	BIO	BOT	LS	GEO
ELA.LIT.RI.8.4	Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings; analyze the impact of specific word choices on meaning and tone, including analogies or allusions to other texts.	★	★	★	★	★	★	★	★	★
ELA.LIT.RI.8.7	Integrate information presented in different media formats as well as in words to develop a coherent understanding of a topic or issue.	★	★	★	★	★	★	★	★	★
ELA.LIT.RST.6-8.3	Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks	★	★	★	★	★	★	★	★	★
ELA.LIT.RST.6-8.7	Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually.		★		★					
ELA.LIT.RST.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 grade.	★	★	★	★	★	★	★	★	★
ELA.LIT.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.	★	★	★	★	★	★	★	★	★
ELA.LIT.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.	★	★	★	★	★	★	★	★	★
ELA.LIT.SL.8.6	Adapt speech to a variety of contexts and tasks, demonstrating command of formal English when indicated or appropriate.	★	★	★	★	★	★	★	★	★
MATH.CON.7.G.B.4	Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.		★							
MATH.CON.7.SP.A.2	Use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions.	★	★	★	★	★	★	★	★	★
MATH.PRAC.MP1	Make sense of problems and persevere in solving them.	★	★	★	★	★	★	★	★	★
MATH.PRAC.MP2	Reason abstractly and quantitatively.	★	★	★	★	★	★	★	★	★
MATH.PRAC.MP3	Construct viable arguments and critique the reasoning of others.	★	★	★	★	★	★	★	★	★
MATH.PRAC.MP4	Model with mathematics.	★	★	★	★	★	★	★	★	★
MATH.PRAC.MP5	Use appropriate tools strategically.	★	★	★	★	★	★	★	★	★
MATH.PRAC.MP6	Attend to precision.	★	★	★	★	★	★	★	★	★