

**Next Generation Science
Standards
Advanced Academy
10th-12th Grade
2019**

	Astronomy Night-Celestial Marathon	Engineering Extreme Environments (E3)	Flight Hardware	International Space Programs	Intro to Flight	M.A.R.S. Lab	Model Rocket Challenge	Rovers - AA	SLS/Orion	Space History (Early Rocketry-Shuttle)	Space Meds	Space Race/Languages of the ISS	Space Suits - Advanced	Thermal Protection Systems
PS4.C: Information Technologies and Instrumentation	X	X				X						X		
Life Science														
LS1.A: Structure and Function											X		X	
LS1.B: Growth and Development of Organisms											X			
LS1.C: Organization for Matter and Energy Flow in Organisms		X												
LS1.D: Information Processing														
LS2.A: Interdependent Relationships in Ecosystems			X											
LS2.B: Cycles of Matter and Energy Transfer in Ecosystems														
LS2.C: Ecosystem Dynamics, Functioning, and Resilience														
LS2.D: Social Interactions and Group Behavior														
LS3.A: Inheritance of Traits														
LS3.B: Variation of Traits														
LS4.A: Evidence of Common Ancestry														
LS4.B Natural Selection														
LS4.C: Adaptation														
LS4.D: Biodiversity and Human														
Engineering Design, Technology, and the Application of Science														
ETS1.A: Defining and Delimiting an Engineering Problem		X				X	X	X					X	X
ETS1.B: Developing Possible Solutions		X				X	X	X					X	X
ETS1.C: Optimizing the Design Solution		X				X	X						X	X