

Science and Engineering Practices	Essential learning Target	6th grade unit taught	7th grade unit taught	8th grade unit taught
Practice 2: Developing and Using Models	Develop/use a model to show a scientific principle	2) Metabolism 4) Traits and Reproduction 7) Models	Matter and Energy in Ecosystems	Force and Motion Engineering Internship
Practice 4: Analyzing and Interpreting Data	Construct and interpret graphical displays of data to describe a scientific principle	3) Metabolism Engineering Internship 6) Ocean, Atmosphere and Climate 9) Climate Engineering Internship	Geology of Mars Plate motion + Natural Selection	Force and Motion
Practice 5: Mathematics and Computational Thinking	Use mathematical representations to support explanations of scientific principle		Plate motion E/I + Natural Selection	Chemical Reactions
Practice 6: Constructing Explanations and Designing Solutions	Design, construct, test and modify a solution that solves a human problem	3) Metabolism Engineering Internship 5) Thermal Energy	Plate motion E/I + Natural Selection E/I	Phase Changes Engineering Internship
Practice 7: Engaging in Argument from Evidence	Construct, use, and present an argument that is based on evidence to support a claim	1) Microbiome 2.7 Activity 3 5) Thermal Energy 3.4 Activity 4 7) Weather Patterns 3.3 Activity 4 8) Earth's Changing Climate 2.7 Activity 4	Geology of Mars + Plate Motion + Matter and Energy in Ecosystems + Natural Selection	Light Waves Lesson 3.6 Activity 3