

The Palo Alto Junior Museum and Zoo Elementary School Lessons NGSS Aligned Classes Offered 2017-18 School Year

GRADE	LIFE SCIENCE	EARTH SCIENCE	PHYSICAL SCIENCE
K	Relationships in Ecosystems	Weather & Climate	Forces & Interactions
	Rainforest Biome	Solar Lab	Roller Coasters
	Riparian Biome	Thermometers	Straw Launchers
	Mini-Habitats		Testing Catapults
	Zoo Animals Program		Engineering – Paper Bridges **
1	Life Structures & Functions	Space Systems	Light & Sound
	Bats	Starlab Planetarium	Illumination
	Engineering – Biomimicry **	Orbits	Lasers and Mirrors
	Heredity		Sound Explorations
2	Relationships in Ecosystems	Earth's Processes	Properties of Matter
	Plants of Different Biomes	Volcanoes and Igneous Rocks	Making Recycled Paper
	Engineering – Seed Pods **	Weathering and Erosion	Viscosity
			Phase Changes
3	Life Inheritance & Variations	Weather & Climate	Forces & Interactions
	Bee Society	Weather Instruments	Bouncing and Rolling
	Fish Adaptations	Storms	Roller Coasters
	Fossils	Sand Erosion Mitigation	Magnets
	Camouflage		Static
			Engineering – Marble Paths **
4	Life Structures & Functions	Earth's Processes	Energy
	Squid Dissection	Rock Identification	Potential vs. Kinetic Energy
	Eye Dissection	Sand Investigation Lab	Chemical Energy
	Lung Models	Engineering – Wind Power **	
		Engineering – Earthquake Construction **	
5	Matter & Energy in Life	Earth's Systems	Properties of Matter
	Plankton Exploration	Water Pollution	Mysterious White Powder Lab
	Carnivorous Plants	Water Filtration	Advanced Mineral Identification
		Space Systems	Periodic Table, Atoms and Molecules
		Starlab Planetarium, Advanced	
		The Reason for the Seasons	Conservation of Mass
		Solar Ovens	

++ Making Recycled Paper lesson requires parent volunteers.

** All Engineering lessons require two class periods.