



Palo Alto  
Junior Museum  
& Zoo

www.cityofpaloalto.org/jmz

## The Palo Alto Junior Museum and Zoo Elementary School Lessons NGSS Aligned Classes Offered 2016-17 School Year

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

++ Making Recycled Paper lesson requires parent volunteers.

\*\* All Engineering lessons require two class periods.