



Science, Technology, Engineering, Art & Math

Get Ready for Hands-On Fun!

Parent Volunteers Always Welcome!

Sponsored by the PFA - Thank you!

Subject to change, check STEAM Website for up-dates.

Date	STEAM Topics 2016-2017	Last Revision 8/21/16
Aug 25-26 Aug 29,30,31 Sept. 1,2	(3-5) Physical Science: Sound Waves, Wavelengths Art: Guitars inspired by Picasso (J-2) Life Science: Parts of a Flower, Pollination Art: Variety of Flowers inspired by Georgia O'Keefe <b>*On August 29, 30, 31, students are invited to bring in a fresh flower or flowers from their yard, or blossom from a tree or bush.</b>	
Sept 6-9	Earth Science: Air we breath = 21% Oxygen 78% Nitrogen 2% Other gases Science Experiments: Submerged Cup, Egg In A Bottle, Hot Air Balloons, Whirlpools Vocabulary: Gas, Experiment, Constant, Variables, Cup, Pint, Quart, Gallon,	
Sept 12-16	Art: J-1 Hot Air Balloons, 2-3 Hot Air Balloon, 4-5 The Scream by Edvard Munch Science: Clouds, Cumulus, Stratus, Weather, Troposphere	
Sept 20-23	Life Science: Trees, Leaves, Seed Dispersal, Habitat (part 1) Art: Trees inspired by many artists <b>*Students are invited to bring a variety of leaves, branches, bark or seeds.            *Please label leaves if you can. Display for the week in our museum.</b>	
Sept 26-30	Life Science: Trees, Leaves, Seed Dispersal, Habitat (part 2) Finish Tree inspired art <b>*Students are invited to bring a variety of leaves, branches, bark or seeds.            *Please label leaves if you can. Display for the week in our museum.</b>	
Oct 5-9	\$\$ Sumac Spare Change Drive - Fundraiser \$\$ Physical Science: Push & Pull, Speed & Direction, Vortex & Gravity <b>*Students are invited to bring &amp; donate 2 pennies, 2 nickels, 2 dimes, 2 quarters, &amp; a \$1 bill.</b> Students may observe, then compare and contrast different coins as they spin down a vortex. Students may examine a dollar bill under a powerful microscope. Additional hands-on challenges will be part of this fun lesson.	
Oct 10,11 Oct 26,27,28	Life Science: Dendrochronology / Tree Rings Art: Marbling Tree Rings	
Nov. 2,3	Make-up Days	
Nov 4, 7,8 9 10	Earth Science: Soil Types Art: Ceramic Clay Tiles	
Nov 14-18	Art: Ceramic Clay Tiles Design & Glaze	
Nov 28-Dec 2	Engineering: Architecture - Famous Structures (part 1) Art: J-1 F Ferris Wheel, 2-3 Arch Bridge 4-5 Eiffel Tower or Golden Gate Bridge	



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Dec 5-9	Engineering: Architecture - Famous Structures (part 2) Finish Art Engineering Challenges: Bridges	
Dec 12-13	Make-up Days	
Jan 3-6	Life Science: Habitats	
Jan 9-13	Technology Inspired by Biology: Animal Adaptations	
Jan 17-20	Earth Science: Seasons Model of Earth Rotating Around the Sun or Voyager Art	
Jan 23-27	Physical Science: States of Matter, The Periodic Table of Elements Art: J-3 States of Matter, 4-5 Element Name Art with metallic markers on black Book: Theodore Gray's The Elements Song: Tom Lehr's "The Elements"	
Jan 30-Feb 3	Physical Science: Magnetism	
Feb 6-10	Chess & IQ Fit, an introduction into coding	
Feb 20-24	Hands-On Engineering Challenges: Design & build a rollercoaster for Magic Mountain.	
Feb 27-Mar 3	Earth Science: Geology Rocks! Rock designs in architecture <b>*Students are invited to bring in sand from around the world</b> Art: Red Rock Arches	
Mar 6-10	Earth Science: Geology (part 2)	
Mar 13-17	Earth Science: Renewable Energy: Wind, Solar, Hydropower, Biomass, Geothermal <i>Short Days: Make-ups for afternoon classes in April.</i>	
Mar 21-24	Earth Science: Nonrenewable Energy Sources: Petroleum, Natural Gas, Coal, Uranium, Propane	
Mar 27-31	Hands-On Engineering Challenges	
April 3-7	Make-Up Days	
TBD	Spring Art Show?	

