

SAMPLE PHENOMENA, ACTIVITIES & PROJECTS ALIGNED TO NGSS- GRADES 6-8

DISCIPLINE	PHENOMENON	WEBLINK	SUGGESTED ACTIVITY/PROJECT
LIFE SCIENCE:			
MS-LS1-1	Cell Differentiation	http://tinyurl.com/qz63cru	http://tinyurl.com/m9ab5rz ; http://sepuplhs.org/pdfs/cell_differentiation_nsta2013.pdf
MS-LS2-4	Saving the Salton Sea	https://www.youtube.com/watch?v=BIVFSSuNQuc	http://tinyurl.com/hurhdrz
MS-LS3-1	Sisters battle rare, fatal genetic disease found in 100 people worldwide	https://www.youtube.com/watch?v=XikZm0I_tEM	PBL- Genetics Unit Sketch -- Genetic Disorder Podcast- Students will form groups (Task Forces) to research genetic disorders and then develop a public health policy on screening newborn infants for those disorders. Each group/Task Force then prepares a podcast script and recording to the class. Each student will choose and assume a role to play on their Task Force, approaching the assignment from the perspective of that role. (http://tinyurl.com/gl2u9kj)
MS-LS4-4	Evolution in Action- California Salamanders	https://www.youtube.com/watch?v=aDIQFQOCGal	http://tinyurl.com/hqhzrok
PHYSICAL SCIENCE:			
MS-PS1-2	Amazing Chemical Reactions	http://tinyurl.com/la757go	http://tinyurl.com/j58qleo
MS-PS1-4	Wierdest Chemical Reaction I have Ever Freaking Seen!!	http://tinyurl.com/hxoe3rw	http://tinyurl.com/kpkzthp
MS-PS2-1	Mythbusters- Car Crash Force	http://tinyurl.com/jxyxyr5	http://tinyurl.com/9drsx62 ; http://classroom.jc-schools.net/sci-units/force.htm#8
MS-PS3-3	How To Save Energy by Insulating Your Home	http://tinyurl.com/je9omwt	http://theselsproject.org/activities-conduction/ PBL- "Am I Freezing?": Students will prepare a presentation demonstrating the transfer of energy from ice cream mix to ice. Students will employ the kinetic theory to relate molecular motion, kinetic energy, and temperature; understand the law of conservation of energy as it applies to thermal energy; and using the scientific method, experimentally demonstrate the relationship between heat and temperature. (http://tinyurl.com/h23rtat)

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EARTH/SPACE SCIENCE:			
MS-ESS1-4	Lucy: 3.2 Million Year Old Mother of Man - BBC	https://www.youtube.com/watch?v=V3U5KkOYRkA	http://www.evolution.berkeley.edu/activities.htm
MS-ESS2-2	River bank erosion repairs continue in Sacramento	https://www.youtube.com/watch?v=vx-DBHLUiJl	http://geology.com/teacher/erosion.shtml
MS-ESS2-1	Debris flow- California	http://tinyurl.com/z4je8ca	http://geology.com/teacher/erosion.shtml

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MS-ESS3-3	Visual Proof Of THE HUMAN IMPACT ON ENVIRONMENT (Plastic Bags, Animals, Water)	https://www.youtube.com/watch?v=6Lu5ohVfkYE	PBL- Students will begin by analyzing + reflecting on their daily + yearly impact on the environment and will continue by gaining specific background information on air, land, water pollution. They will tie this information into an exploration of a variety of human impacts both positive and negative. Students will select 1 human impact and apply their personal interest to a community service project in their town/city. The culminating performance will be the creation and presentation of a plan of action for future involvement to positively impact our local or global environment.

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