

Science Unit	<i><b>Nature of Science</b></i>
Engineering Unit	<b>Nature of Science &amp; Engineering (NSE)</b>
Timeline	<b>August – September (Grading Per. 1)</b>
	<b>Engineering</b>
<b>Kindergarten</b>	<a href="#">Water Paint Project</a> . Observing water absorption, change of paper Vocab: Observe, Describe, Compare. ROYG.BIV introduction.
<b>First Grade</b>	<a href="#">Rainbow Whale Project</a> – Investigate the rainbow order and the largest creature in the sea.
<b>Second Grade</b>	<a href="#">Steamy Mug Project</a> - Explain, Explore, describe differences of 2D and 3D, predict if hot air rises.
<b>Third Grade</b>	<a href="#">Green Water Paint Project</a> . Observing color creations, water absorption, change of paper, color Vocab: Observe, Investigate, Explain, Explore, describe, Predict, Change, Compare
<b>Fourth Grade</b>	<a href="#">3D Soup Can Project- Warhol</a> Compare 2D to 3D based on physical properties of mass, shape, volume, color, hardness, texture.
<b>Fifth Grade</b>	<a href="#">Tag Art</a> – Observe, sketch, investigate and observe examples. Discuss real world connections and graphic design.

Science Unit	<i><b>Physical Science</b></i>
Engineering Unit	<b>Gravitational Force &amp; Resultant Motion/ Electromagnetic Force &amp; Resultant Motion</b>
Timeline	<b>(Grading Per. 2) Oct.-Dec. OCT= Gravitational Force and Resultant Motion NOV=Electromagnetic Force Resultant Motion</b>
	<b>Engineering</b>
<b>Kindergarten</b>	<a href="#">Integrate discussions on: Color Spectrum activity</a> color spectrum- Students will investigate that lines LOOK different: Zig Zag, horizontal, vertical, diagonal
<b>First Grade</b>	<a href="#">Discussions on:</a> What types of water are found on earth? Water lines: river, lake, ocean. How things move: push, pull, zig zag, direction (vertical, horizontal, diagonal),
<b>Second Grade</b>	<a href="#">Discussions on: Clay project</a> Gravity, minerals, clay ingredients/particles, physical change vs. chemical change
<b>Third Grade</b>	<a href="#">Discussions on:</a> Properties of light. Light waves: reflect, absorb, (painting)
<b>Fourth Grade</b>	<a href="#">Drawing perspective of connects car (two days?)</a> Researching ipad technical app.
<b>Fifth Grade</b>	<a href="#">Discussions on:</a> How water and air can move things- respond to all the past projects created in art How heat changes clay (kiln and temperature)

Science Unit	<b><i>Earth Science</i></b>
Engineering Unit	Natural Resource & Space Exploration
Timeline	(Grading Per. 3) January= Natural Resources February-March= Space Exploration
	Engineering
Kindergarten	<a href="#">Sun &amp; Moon Discussions:</a> Sun: Size and circles Moon: The students will observe that the moon changes shapes. Moon phases activity Vocab: Sun, Moon, Star, Earth, Rotation, Phases, Cycle, Shape, Size
First Grade	<a href="#">Northern Lights Project</a> Atmosphere, color, time of year <b>Recognize that some things in the world around us happen fast and some happen slowly.</b>
Second Grade	<a href="#">Arctic animal Project</a> <a href="#">Stars: How to draw stars activity</a> Observe and discuss stars Arctic, Desert, Rainforest, Ocean,
Third Grade	<a href="#">Stars: How to draw stars activity</a>
Fourth Grade	<a href="#">Moon Phase discussions</a> Moon: Phases
Fifth Grade	<a href="#">Paint night sky project:</a> Galaxies & Milky Way Solar System & Sun, planets, moons, asteroids, comets

<b>Science Unit</b>	<b><i>Life Science</i></b>
<b>Engineering Unit</b>	<b>Life Process/ Ecosystems</b>
<b>Timeline</b>	<b>(Grading Per. 4) April=Life Processes May=Ecosystems</b>
	<b>Engineering</b>
<b>Kindergarten</b>	<a href="#">Animals' habitat discussions</a> Vocab: Environment, Habitat, Senses, Similar
<b>First Grade</b>	<a href="#">Butterfly Project- symmetry</a> What observations can I make using my senses? Metamorphosis, habitat, Living, non-living , environment, stem, roots, leaves, flowers, needs, senses,
<b>Second Grade</b>	<a href="#">Tiger drawing project</a> Animal, plant, habitat
<b>Third Grade</b>	<a href="#">Polar Bear Project</a> Animal, plant, habitat
<b>Fourth Grade</b>	<a href="#">Recycling Discussions</a> Ecology- Reduce/ Renew/ Recycle
<b>Fifth Grade</b>	<a href="#">Full body drawing</a> Human body

## Music- Math Topics

Grade Level	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade
<b>Math Topic(s)</b>	Clay Donut Project  Paper Sculpture Project  Clay Project: Weight before and after firing	Mondrian Squares  Clay Project: Form 3D vs. 2D Weight before and after firing	Weaving -odd even  Clay Project: Form, Weight before and after firing	Clay Project: Form, Weight before and after firing	Form Patterns: Clay Owl Weight before and after firing  Car technical drawing (to scale)  Composition & Division: Jen Stark Project	1 Point Perspective Drawing  Fold/divide: Dragon Eye Project  Clay Form: Clay coil pots, Form, Weight before and after firing