

<b>Grade</b>	<b>In-Class Project</b>	<b>Description</b>	<b>CA State Standards</b>
<b>KINDER-GARTEN</b>	<b>Super Sleuth Introduction</b>	Students put their spy skills to the test in a variety of experiments designed to hone their 5 senses of sight, sound, smell, touch and taste.	Kindergarten-Science <b>Investigation and Experimentation</b> (4.a, 4.b, 4.c,4.d, 4.e)
	<b>Animals and Their Surroundings</b>	Students are introduced to habitats, what types of animals live in each, and the characteristics that enable them to survive in their respective homes. Activities feature interactive games and movement.	Kindergarten-Science <b>Physical Sciences</b> (1.a, 2.a, 2.c, 3.a, 3.c)
<b>FIRST</b>	<b>Oobleck</b>	The properties of liquids, solids and gasses are discussed before creating a “goo” that simultaneously exhibits qualities of all three.	Grade 1-Science <b>Physical Sciences</b> (1.a, 1.b)
	<b>Ice Cream Baggies</b>	Students understand how matter transforms from a liquid to a solid in this “yummy for your tummy” experiment.	Grade 1-Science <b>Physical Sciences</b> (1.a, 1.b)
	<b>Wacky Weather of the Bay Area</b>	We take a look at how and why the weather of the Bay Area it is created. We will be making our own fog, experiment with the power of wind, creating condensation and capturing the suns energy.	Grade 1-Science <b>Earth Sciences</b> (3.a, 3.c)

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SECOND	<b>Fractal Fun</b> (2 <sup>nd</sup> & 3 <sup>rd</sup> grade math)	Students learn how nature uses fractions to create fractal patterns then create their own pop-up fractal greeting card.	Grade 2-Math Number Sense (4.0, 4.1, 4.2) Grade 3-Math Number Sense(3.0, 3.1, 3.2)
	<b>Stomp Rockets</b>	3-2-1-Blast Off!!! Students learn about the forces of “push” and “pull” and simple machines as they launch air propelled rockets	Grade 2-Science Physical Sciences (1.a, 1.b, 1.c, 1.d,)
	<b>Magnificent Magnets</b>	Explore the magic of magnets by creating projects that help students understand why and how magnets work.	Grade 2-Science Physical Sciences (1.c, 1.f,)
THIRD	<b>Oobleck</b>	The properties of liquids and solids are discussed before creating a “goo” that simultaneously exhibits qualities of both.	Grade 3-Science Physical Sciences (1.e, 1.g)
	<b>Pop Rockets</b>	Students learn the fundamentals of a chemical reaction when we create a gas by mixing an acid and a base to launch a mini rocket high into the air.	Grade 3-Science Physical Sciences (1. e, 1.g)
	<b>Periscopes</b>	Students create periscopes to peer over fences and learn how light reflects off mirrors. <i>Note: Requires student to collect 2 milk cartons each 3 weeks prior to presentation.</i>	Grade 3-Science Physical Sciences (2.b, 2.d)

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FOURTH	<b>Pickle Power</b>	Students learn the basics of creating a circuit then sound a buzzer using a pickle, a pencil and aluminum foil.	Grade 4-Science Physical Sciences (1.a, 1.g)
	<b>Exploding Volcanoes</b>	Students learn about the different types of volcanic eruptions and the forces that cause them before creating one that erupts 3-4 ft in the air!	Grade 4-Science Earth Sciences (4.a, 5.a)
FIFTH	<b>Air Pressure: Turbulence in a Bottle</b> (Part 1 of 3)	Students see the invisible properties of turbulence when we mix hand soap, water and coloring in a bottle. Students learn about forces that can affect weather and air patterns.	Grade 5-Science Earth Sciences (4.a, 4.b, 4.c, 4.e)
	<b>Egg in a Bottle</b> (Part 2 of 3)	Students gasp as we apply principals of air pressure to “suck” an egg into a bottle. We discuss how the heating and cooling air relates to weather pattern.	<b>Note: All 3 experiments take place in a 1 hour presentation.</b>
	<b>Upside Down Water</b> (Part 3 of 3)	<i>Time Permitting:</i> We will demonstrate how air pressure can make water hover upside down in a glass.	
	<b>Slime</b>	Students learn the difference between a “mixture” and a “chemical reaction” as they mix glue, water and detergent to create a fun and slimy Non-Newtonian fluid!	Grade 5-Science Physical Sciences (1.a, 1.b)