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| Fun Science Experiment for Kids - Course Syllabus | | |
| Week 1: Making Ice Cream | Materials:   * Milk * Whipping/heavy cream * White sugar * Vanilla extract * Table salt * Ice * 1 quart Ziploc bag * 1 gallon Ziploc bag * Thermometer * Measuring cups and spoons * Bowls and spoons for the ice cream   Procedure: <http://www.kidzworld.com/article/26683-science-project-make-homemade-ice-cream> | 5 min: Introductions  10-15 min: introduce experiment and distribute materials and go over procedure  15-20 min: Experiment  20 min: Explain the science  <https://www.stevespanglerscience.com/lab/experiments/homemade-ice-cream-sick-science/> |
| Week 2: Making Slime | Materials:   * Shaving Cream * Borax * Glue * Food Coloring (already have) |  |
| Week 3: Elephant Toothpaste | Materials:   * Soda bottles * hydrogen peroxide * dry yeast * warm water * dishwashing soap * food coloring (already have) * small cup * safety goggles |  |
| Week 4: Density Experiment | <https://www.youtube.com/watch?v=DMETc1oTfIE> 12:00  Materials:   * Water * Oil * Honey * Dish soap * Pure Alcohol * Rubber duck * Metal ring * Cherry tomatoes * Plastic things * These things are not very important, do not have to be included in the cost |  |
| Week 5: DIY Lava Lamp | <https://www.youtube.com/watch?v=DMETc1oTfIE> 4:40  Materials:   * Oil * Water * Food coloring * Fizz tablet/aspirin |  |
| Week 6: Galaxy with Milk and Dish Soap | <https://www.youtube.com/watch?v=DMETc1oTfIE>  Materials:   * Milk * Plate * Food coloring * Dish Soap |  |
| Week 7: Bristle Bots | Materials:   * Toothbrush * lithium batteries * electrical tape |  |
| Week 8: Mini Volcano | <https://www.youtube.com/watch?v=DMETc1oTfIE> 8:00  Materials:   * Baking Soda * Food Coloring * Vinegar |  |
| Week 9: Weird Slime with Cornstarch & Water | <https://www.youtube.com/watch?v=DMETc1oTfIE> 18:00  Materials:   * Cornstarch * Tonic Water (may be expensive) |  |
| Week 10: Ice Mountain | <https://www.youtube.com/watch?v=DMETc1oTfIE> 20:00   * Distilled water (may be expensive) * Small metal pieces (maybe can get from home) * Very messy experiment, so will need big bucket or something |  |
| Week 11: Bouncy Egg | <https://www.kiwico.com/diy/Science-Projects-for-Kids/3/project/Bouncy-Egg-Experiment/2212>  Materials:   * Quail Egg * vinegar |  |
| Week 12: Pennies in a boat | Materials   * aluminum foil * kiddies pool/something big to hold water it * pennies |  |
| Week 13: Rube Goldberg Machine project | Random materials, kids can bring from home |  |
| Week 14: Rube Goldberg Machine project | Ball, |  |
| Week 15: Build Egg Container | Eggs, straws, rubber bands, table cloth because kids will drop it |  |
| Week 16: kid’s choice on which experiment they want to do again/continue with egg experiment if not done/or end of class party |  |  |
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第1周：制作冰淇淋材料：

- 牛奶

- 奶油

- 白砂糖

- 香草精

- 食盐

- 冰

- 1夸脱Ziploc包

- 1加仑Ziploc包

- 温度计

- 量杯和勺子

- 冰淇淋的碗和勺子

程序：http：//www.kidzworld.com/article/26683-science-project-make-homemade-ice-cream

5分钟：介绍

10-15分钟：介绍实验和分配资料并重新过程

15-20分钟：实验

20分钟：解释科学

<https://www.stevespanglerscience.com/lab/experiments/homemade-ice-cream-sick-science/>

第2周：制作粘液剃须膏，硼砂，胶水

第3周：牙膏, 苏打瓶，双氧水，干酵母，温水，洗碗皂，食用色素，小杯，护目镜

第4周：密度实验https://www.youtube.com/watch?v=DMETc1oTfIE 12:00

第5周：DIY熔岩灯https://www.youtube.com/watch?v=DMETc1oTfIE 4:40

第6周：银河系牛奶和碟肥皂https://www.youtube.com/watch?v=DMETc1oTfIE

第7周：猪鬃机器人牙刷，锂电池，电工胶带

第8周：迷你火山https://www.youtube.com/watch?v=DMETc1oTfIE 8:00

第9周：玉米淀粉和水奇怪的煤泥https://www.youtube.com/watch?v=DMETc1oTfIE 18:00

第十周：冰山https://www.youtube.com/watch?v=DMETc1oTfIE 20:00

第11周：充气蛋https://www.kiwico.com/diy/Science-Projects-for-Kids/3/project/Bouncy-Egg-Experiment/2212

第12周：铝箔纸，大水盆，硬币

第13周：Rube Goldberg机器项目随机材料，孩子们可以从家带来

第14周：Rube Goldberg机器项目Ball，

第15周：制作鸡蛋容器鸡蛋，吸管，橡皮筋

第16周：孩子选择他们想要再次进行的实验/如果没有完成，继续进行蛋实验

Course Description:

If you're looking for some fun science experiments for kids then you've come to the right class. This class is full of fascinating hands-on experiments that are a great way to enjoy the world of science. Learn interesting science and technology facts by experimenting with different materials that react in surprising ways. You'll find a lot of experiments can be done using simple ingredients found around your house (with lab instructor’s and assistants’ supervision of course). Basic materials can help you perform experiments that are simple, safe and perfect for kids. Enjoy our fun science experiments, make cool projects with easy ideas for children, show friends & family what you've discovered and most importantly, have fun!