| | 5th Grade: Balanced and Unbalanced Forces |
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| Learning Enrichment and | Materials |
| • | (I) Metal or plastic pie tin plate |
| Acceleration Program (L.E.A.P.) | (I) Plastic cup of water |
| <u>October Activities</u> | (2) Eggs |
| | (I) Toilet paper tube |
| | (I) Roll of paper towels for cleanup |
| | Instructions |
| | I. Fill the plastic cup halfway with water. |
| | 2. Place the plate on top of the cup (center it). |
| | 3. Stack the toilet paper tube on top and center it as |
| | |
| | Y. Finally, balance the egg on top of the toilet paper tube. |
| | 5. Use the palm of your hand to knock the plate away. |
| the general second | Tip: Don't hit the tube or the cup. Only the plate! |
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| 4 th Grade: Solar Cooker | 3rd Grade: Egg Drop Challenge: |
| Materials | Materials |
| (I)Large/medium/small box | (I)Uncooked egg |
| (I) Roll of foil | (1) Handful of straws (9 inch long, extra wide in |
| (I) Knife to cut the box (adults | diameter) |
| only!) | (I) Roll of tape |
| (I) Roll of plastic wrap | (1) Pair of scissors |
| (I) Sheet of black construction | (20) Rubber bands |
| paper | |
| (I) Pair of scissors | Instructions |
| (I) Roll of tape | I. Make a triangle out of a straw and tape it together |
| (2) Graham crackers | or use rubber bands. |
| (I) Chocolate bar | 2. Repeat this two more times. |
| (I) Marshmallow Instructions: | 3. Tape all 3 triangles together around the egg to make a pyramid shape. |
| | 4 Decide how else to cushion the egg – for example: |
| I. Tape the box closed. | using more straws |
| 2. Ask an adult to cut a large door into the biggest side of the box. | 5. Spread the painter's tarp or newspaper on the |
| 3. Line the door and bottom with foil (use tape to | ground or floor. |
| secure it). | 6. Hold your egg high above your head and drop it on |
| 3. Place a small piece of black construction paper inside | the painter's tarp. 7. Did it work? If not try a different design. |
| the box. | |
| 4. Place the Simore on the construction paper. | 8. Be creative, test your own designs and materials (Styrofoam, balloons, etc) |
| 5. Cover the opening with plastic wrap (for best | |
| results, seal completely to retain heat). | |
| 6. Place the box in the sun around noon (time required varied based on weather, typically sunny | |
| 7. When the chocolate has melted (or is at least | |
| warm) eat the Simore! | |
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| 2 nd Grade: Water Wheel <i>Materials:</i> (1)Large plastic container (2) Long rulers (2) Paper or foam plates (1) Deck of playing cards (1) Wood barbecue skewer | I st Grade: Catapult <i>Materials</i> I. 7 Pencils 2. I bag of cotton balls 3. 7 pieces of rubber bands 4. I plastic spoons |
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| (1) Pair of scissors (1) Roll of tape (1) Stapler (1) Pitcher of water | Kindergarten: Marshmallow Tower <i>Materials:</i> (1)Packet of spaghetti (1)Bags of marshmallows - big and small. |
| Instructions: I. Poke a hole in the center of each plate. 2. Fold 8 playing cards or cut index cards to the size of playing cards and fold it in thirds with the help of a ruler. 3. Staple the playing cards or index cards evenly around one plate, then staple them to the other. H. Insert the skewer through the two holes in the plates. 5. Place two rulers on top of the large plastic container. 6. Place the water wheel on the rulers and tape down the skewer. 7. Pour water onto the wheel and observe the results! Quick tip: A foam egg carton can be cut apart and used in place of playing cards. | Pre-K - Sail Boat Materials: 1. 2 buckets of water 2. Ream of paper 3. Aluminum foil 4. Marbles for weight |

