

10+1 Science experiments

Science experiments are great to do with children for many reasons. One reason is they encourage curiosity. Another reason is it encourages children to predict things. Here are some science experiments you can do at home with your child:

1. **Skittles experiment:** for this experiment you will need skittles (or MM's), water, and a plate (that slopes toward the middle. Put your skittles around the edge of the plate in a circle. If you try to make a pattern with the different colored skittles it looks really cool. After you put the skittles around the plate add medium temperature water to the middle of the plate. Then see the neat colors and rainbow you have made on your plate.
2. **Volcano experiment:** This is a really easy experiment with cool results. You will need baking soda, vinegar, a container or cup (2 if you use food coloring), and food coloring (optional). First put some baking soda into one container. Then put the vinegar into another container. Put a few drops of food coloring in the vinegar and stir. Add the vinegar to the baking soda. Watch the reaction happen.
3. **Paper towel rainbow experiment:** You will need paper towels, 6 clear jars or cups, water, and food coloring. Pour water into 3 of the cups until it is about 3/4 full. Then make one jar red, one jar blue, and one jar yellow with the food coloring. Put the cups in a circle alternating a colored one and an empty one. Take 6 paper towels and fold them till you create a strip. Then put one end of the paper towel into the water cup and the other end of the paper towel into the empty cup. Continue putting the paper towels into the jars like that until all 6 are done. You should have 2 paper towels in each jar. Wait patiently and you will begin to see your rainbow!
4. **Eating something new:** this is an experiment we like to do at school with the students. Teachers will give students something different that students may not have eaten before. We then let children use their 5 senses to explore the food. Students usually write/draw their observations in a journal. However, you could just discuss it with your child.
5. **Sink or float:** for this experiment you will need a transparent bowl, water, and different objects. Put the water into the bowl and have your child pick an object. We have done this experiment at school with the children and they enjoy predicting if their object will sink or float. Have your child guess if it will sink or float.
6. **Magnet exploration:** you will need a magnet and different objects that are or are not magnetic. Have your child choose an object and predict if it will stick to the magnet or not.
7. **Changing color flowers:** this is a great experiment to do now because it is spring. You will need a flower (preferably white but you could try other colors), a cup, water, food coloring, and patience. First snip the stem of the flower so that the flower fits in your cup. Then put some water into your cup. Next add some food coloring. Finally, put your

flower into the cup. You will probably have to wait at least 1 day to start seeing your flower change colors.

8. **Sensory bottles:** sensory bottles are fun to make and when you are done you can keep them for a while! There are so many different ways to make sensory bottles. At school, we usually make them with a soda bottle, warm water, clear glue, and some sort of item that fits in the bottle (beads, orbeez, glitter, etc.). The first step is to put the items in the bottle. Next put the warm water in the bottle. I would suggest only putting a bit of warm water into the bottle to start (no more than 1/4 full) so that you can test how fast or slow your items move. Then add some glue. I would recommend that you don't fill the bottle the whole way with glue and test your mixture before you decide if you want to add more water or glue. Close your bottle and see how fast or slow your items move. If you want the items to move faster, use more water. If you want the items to move slower, use more glue. When you are done, you could use hot glue to secure the bottle so it does not open. For more information on different items you can use to make sensory bottles check out this website: <https://preschoolinspirations.com/how-to-make-a-perfect-sensory-bottle/>
9. **Magic milk:** you will need whole milk, plates/bowls, q-tips, dish soap, and food coloring. Pour some milk into your plate so that the milk covers the plate. Add a few drops of food coloring around the milk. Then, dip the q-tip into the dish soap. Hold the q-tip over the milk and let the dish soap drip into the milk. Watch the neat patterns and shapes that happen. For step by step instructions check out this website: https://lemonlimeadventures.com/magic-milk-toddlers-preschoolers-palmolive-dish-soap-palmolive25ways-cbias/#_a5y_p=2291040
10. **Dirty pennies:** to complete this experiment you will need white vinegar, salt, a bowl, dirty pennies, and a spoon. Pour some vinegar into the bowl. Then add a dash of salt. Mix that up with the spoon. Then put a dirty penny in. Stir the penny around and watch your penny become clean! To see pictures of this experiment check out this website: <https://playtolearnpreschool.us/dirty-pennies/>
11. **Coffee filter sun catcher:** this is a really easy experiment and it will make your windows colorful. You will need washable markers, water (preferably in a spray bottle), a plate/paper towels/wax paper or something to catch the water, and a coffee filter. The first step is to use the washable markers to color the coffee filter. Next put the coffee filter on the plate or whatever you are using to catch the water. Finally spray the coffee filter with water. Don't spray it too much or all the color will be lost. Let the coffee filter dry and then you will have a sun catcher!

We hope these science experiments help your child's curiosity grow and help you grow closer with your child!