

RAINBOW EXPERIMENT

ITEMS NEEDED:

- 1. 7 applesauce/fruit containers**
- 2. paper towels (about 2-3 sheets depending upon if you have the split sheets or full sheets)**
- 3. food coloring (red, yellow and blue)**
- 4. water**

DIRECTIONS:

- 1. Put the 7 cups in a straight line.**
- 2. Pour water into cups 1, 3, 5, and 7 only. It is best to make the cups full of water. (But do not overflow.)**
- 3. Add 5 drops of red food coloring to cup #1 and cup #7.**
- 4. Add 5 drops of yellow food coloring into cup #3.**
- 5. Add 5 drops of blue food coloring into cup #5.**
- 6. Cut the paper towel lengthwise so that it is about 1-2 inches wide.**
- 7. Place paper towel in cup #1 and then into cup #2.**
- 8. Keep adding the paper towel to the rest of the cups so that they form a chain.**

***** The water will slowly ooze onto the paper towels causing a rainbow effect: red, orange, yellow, green, blue, purple and then red. This may take some time, but colored water will appear in the bottoms of cups 2, 4 & 6.**

IT IS SO COOL TO SEE THE COLORS MIX AND CREATE NEW COLORS!

CRYSTAL GARDENS

Items needed:

1. 1 cup of Epsom Salts
2. Clear jar (Peanut butter jar is great)
3. 1 cup Hot tap water
4. Small pom-pom

DIRECTIONS:

1. Put 1 cup of Epsom salts into peanut butter jar.
2. Add 1 cup of Hot tap water to jar.
3. Stir (it is ok if not all of the Epsom Salt dissolves.)
4. Toss in pom-pom
5. Put jar in refrigerator overnight, but remind everyone that this is a Science Camp experiment. You may want to label the jar as Science Experiment so that no one will disturb your experiment.
6. In the morning, gently pour out the water. You should find a crystal garden at the bottom of your jar plus crystals are now on your pom-pom.

**** It is ok to touch your crystals, but they are very delicate (fragile) and they will crumble.**

****Try other objects in the Epsom salt water such as: buttons, grain of sand, or an artificial flower. You may need to leave the other object experiments in the refrigerator for longer periods of time. I used a grain of sand in my experiment and put it in the freezer for 10 minutes before I put it into the refrigerator.**

WHY DOES THIS HAPPEN? Salt will dissolve in hot water better than in cold water. As the water cools, the salt molecules come out of the solution and crystalize. The crystals will form on any surface that they can stick to in the water. Uneven surfaces such as the pom-pom means the crystals will be easier to grow.