

coder kids club

Conductive Dough

Materials

- 1 cup Water
- 1 ½ cups Flour
- ¼ cup Salt
- 3 Tbsp. Cream of Tartar or 9 Tbsp. lemon juice
- 1 Tbsp. Vegetable Oil
- Food Coloring (optional)

Procedure

1. Mix water, 1 cup of flour, salt, cream of tartar, vegetable oil, and food coloring in a medium sized pot.
2. Cook over medium heat and stir continuously.
3. The mixture will begin to boil and start to get chunky.
4. Keep stirring the mixture until it forms a ball in the center of the pot.
5. Once a ball forms, place the ball on a lightly floured surface. **WARNING:** The ball will be very hot. Flatten it a bit, and let it cool for a couple minutes before handling.
6. Knead the remaining flour into the ball until you've reached a desired consistency.
7. Store in an airtight container or plastic bag. Water from the dough will create condensation. If that happens, just knead the dough, and it will be as good as new. The dough should keep for several weeks if stored properly.

Insulating Dough

Materials

- 1 ½ cups Flour
- ½ cup Sugar
- 3 Tbsp. Vegetable Oil
- ½ cup Deionized (or Distilled) Water

Procedure

1. Set aside ½ cup of the flour.
2. Mix all of the remaining solid ingredients and oil in a large bowl.
3. Add a small amount of deionized water (about 1 Tbsp.) to the mixture and stir.
4. Keep adding water in small amounts until most of the water is absorbed by the mixture, and then knead it into a single "lump."
5. Knead more water into the dough until it has a sticky, dough-like texture.
6. Now, knead the reserved flour to the dough, until a desired texture is reached.
7. Store in an airtight container or plastic bag.

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Conductive Slime

Materials

- ½ cup Glue (Elmer's white or gel)
- 1 ½ cup Water
- 1 Tsp. Borax
- Food Coloring (optional)

Procedure

1. In one bowl, mix ½ cup glue and ½ cup water. Add food coloring if you wish to color the slime.
2. In another bowl, mix the Borax and 1 cup of water until the Borax is dissolved.
3. Add the glue mixture to the Borax solution, stirring slowly.
4. The slime will begin to form immediately. Stir as much as you can, and then knead with your hands until it gets less sticky. It's going to be messy!
5. Store in an airtight container, in the fridge, to keep it from growing mold.