



MARBLED PAPER

MATERIALS



- Blank index card
- Shaving cream
- Food Coloring
- Toothpicks
- Spatula
- Plate

PROCEDURE

- Step 1.** Spray a pile of shaving cream the size of your fist onto the plate. Spread it around so that it is slightly bigger than your index card.
- Step 2.** Drop several drops of different colored food coloring onto the shaving cream.
- Step 3.** Drag the toothpick through the food coloring to create swirls.
- Step 4.** Press the index card down in the swirled shaving cream with your hands.
- Step 5.** Lift away the index card and use the spatula to remove the excess shaving cream.



HOW IT WORKS

Polar molecules have an uneven distribution of electrons. This means that one side of the molecule has more electrons than the other, making the molecule polar. Shaving cream is only slightly polar.

Paper and food coloring are both polar molecules. When the index card is applied to the pile of shaving cream, the polar food coloring is attracted to the polar paper molecules of the index card rather than the only slightly polar shaving cream molecules. This is because like substances dissolve like. In other words, the polar food coloring is dissolved more readily by the paper than the shaving cream because it is more polar than the shaving cream.