



NAME: _____

DATE: _____

EXPERIMENT INSPIRED BY

Is There Life on Venus?

MAGIC MILK PLANETS

MATERIALS

- ★ A shallow dish or bowl
- ★ Whole milk (use full fat)
- ★ Liquid food coloring
- ★ Q-tips
- ★ Dishwashing liquid



EXPERIMENT
WOW TO:

Give this kitchen science experiment a try and watch as colors swirl around to make a colorful, dancing planet right before your eyes.

- 1** Pour some milk into the dish until the entire bottom is covered with milk.
- 2** Add a few drops of food coloring onto the milk, leaving some space between each drop. Be sure to use at least 3 different colors and 3-4 drops of each color.
- 3** Dip the end of a q-tip into the dish washing liquid and then dip it into the food coloring in the milk and swirl it around.
- 4** Watch as the colors dance across the surface of the milk creating a beautiful swirl design reminiscent of a faraway planet.

What in the WOW just happened? Milk is made up of water, vitamins, minerals, proteins and fats. When the dishwashing liquid touches the milk it reacts with the fats in the milk. The soap molecules from the dishwashing liquid are trying to attach to the fat molecules in the milk, which causes movement in the liquid as the molecules in the fat and soap bond together and expel the water and food coloring.

