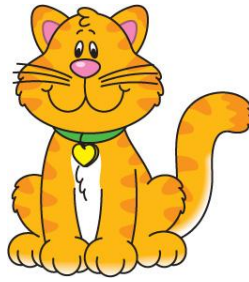


# Cat's Meow



Name \_\_\_\_\_

HRT \_\_\_\_\_

In this experiment, we will hypothesize about the behavior of milk that has household detergent and food coloring added to it.

Each group will need to obtain the following materials:

- Food coloring (4 different colors).
- Flat tooth pick.
- Small cup of liquid dishwashing liquid.
- Milk (two inches)
- Clear glass bowl or aluminum pie pan

## Problem

Read through the procedure before beginning the experiment, record what you think will happen when you add the food coloring?

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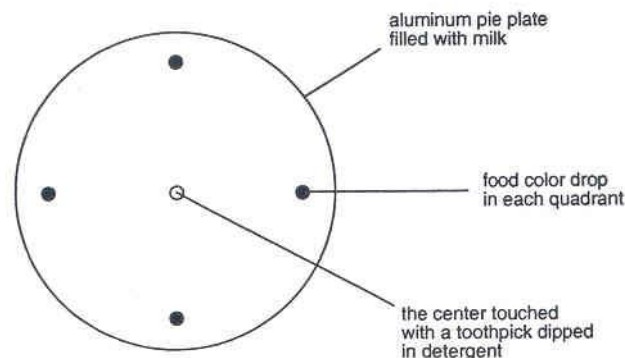
Record what you think will happen when you add the detergent?

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## Procedure

1. Pour milk into an aluminum pie pan or glass bowl to a depth of 1 cm. (1/2 inch).
2. Add a couple of drops of four, differently colored, water-soluble food coloring near the edge of the container. Arrange the drops so that they are in positions equivalent to 3, 6, 9, and 12 on a clock (0°, 90°, 180°, and 270°).
3. Dip the tip of a toothpick in detergent. Touch the surface of the milk in the center of the pie pan and hold the toothpick in place for a while and observe what happens?



Name \_\_\_\_\_

HRT \_\_\_\_\_

**Observation: Describe what happens.**

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**Hypothesis:**

Experiment with the milk and toothpick. How is it possible that the fairly quiet pan of milk is now exhibiting such activity? Suggest a hypothesis that might explain the phenomena that you observed.

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Conduct further experimentation to test your hypothesis. Do you feel that the same results would occur if low-fat milk were used instead? Why?

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What conclusions can you draw from this experiment?

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