

Observations and Inferences - Demonstration

Task Card - Color Changing Milk

Materials: Whole Milk, Bowl, Food Coloring, Dawn dish soap, Q-tips, Cup

Step 1 - Examine the bowl and its contents in front of you at your table. Based on what you see, make an observation and **RECORD** it in your notebook on page 18. **DRAW** a quick picture to show what you see

Step 2 - Take a clean cotton swab (Q-Tip) and touch the tip to the center of the milk. **DO NOT STIR** the mix and only touch the surface with the tip of the Q-Tip.

Step 3 - **RECORD** your observations again. Did anything change?

Step 4 - Place a drop of liquid dish soap on the other end of the Q-tip. Place the soapy end of the Q-Tip back in the middle of the milk and **hold it there for 10 to 15 seconds**. **DO NOT MIX THE MILK WITH THE Q-TIP!**

Step 5 - **RECORD** your observations in your notebook. **DRAW** a small picture to show what you have observed.

Based on what you have just observed, **RECORD** your inferences to explain what just happened.

Step 6 - Add another drop of soap to the tip of the Q-Tip and try it again. Experiment with placing the Q-Tip at different places in the milk. Remember, **DO NOT MIX** the colors with the Q-tip. What do you see?

Step 7 - **RECORD** one more observation and one more inference based on what you have observed. What makes the food coloring in the milk move?

Step 8 - Lastly, write down some question that you have about what you just witnessed. Record them at the bottom of page 18. These questions should be able to lead to an investigation and be testable. Example: What if we changed the _____?