

Name _____ Date _____

Moving Colors

Purpose/Question: To observe heat energy moving.

Hypothesis: Predict which cup of water will the food coloring move the most (fastest), the least (slowest)? Which temperature do you think will change the least the most?

1) Drawings of Food coloring movement: Draw the cup and use your coloring pencils to show food coloring movement.

Cup	Initial	3 min.	6 min. Final
Hot			
Cold			
Room			

Observational notes:

Data Analysis/Conclusion Answer each question on your paper.

- 1) How long did it take for the food coloring to spread evenly throughout each of the cups of water? Hot, cold, room.

- 2) Through which cup of water did the food coloring spread the fastest? Why do you think this happened?

- 3) Which cup of water took the longest for the food coloring to spread? Why?

- 4) Which cup of water seemed to have the most energy? Explain your reason.

- 5) Compare your results to your prediction. Were you correct? Explain using your data.