Moving Water

Procedure

1. **Experiment**  Fill a large container with cold water. Fill a small container with warm water. Add a rock and several drops of food coloring to the small container. Place the lid on the small container and gently shake it.

2. **Predict**  Predict what will happen when the small container is placed on the bottom of the large container and the lid is removed. Record your predictions below.


3. **Experiment**  Measure and record the temperature of the water in each container. Then replace the lid and carefully place the small container on the bottom of the large container.

4. **Observe**  Gently remove the lid from the small container. Observe the water for 10 minutes. Notice any movement of the colored water. Record your observations.


5. **Measure**  Measure and record the temperature of the mixed water.
Conclusion

Write the answers to the questions below.

1. Analyze Data How did the temperature of the cold water change after 10 minutes? How did the warm colored water move when the small container was opened?

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2. Infer Which do you think is denser, warm water or cold water? Explain.

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Investigate More!

Design an Experiment Predict what will happen if you place a small container of cold colored water on the bottom of a large container of warm clear water. Try it. Compare your prediction with the results.