



Matter Changes

Procedure

1. Record your observations in the chart below. Half fill a plastic cup with crushed ice. Put two crackers in another cup.

Material	Height	Shape	State
Crushed ice			
Whole crackers			
Crushed crackers			
Melted ice			
Mixture			

2. **Measure** Use a metric ruler to measure the height of the crushed ice and crackers. Mark the heights on the outside of the cups. Label the marks *Ice* and *Whole Crackers*. Record the height, shape, and state of the materials in your chart.
3. **Compare** Allow the ice to melt. Crush the crackers with a spoon. Measure the height of both materials and mark them on the cups. Label the marks *Melted Ice* and *Crushed Crackers*. Record the height, shape, and state of the materials.
4. Combine the materials in one cup and stir them together. Mark the height and label it *Mixture*. Record the height, shape, and state of the mixture.

Name _____ Date _____

Conclusion

Write the answers to the questions below.

1. **Analyze Data** How did each material change during each step?

2. **Infer** Were any materials taken away during the experiment? Were any new materials added?

3. **Predict** How do you think the mixture will change if you place it in a freezer?

Design an Experiment Allow the mixture from step 4 to dry out. Measure the height of the material that remains. Is the height close to the height of any of the materials in the Investigate?

Guided Inquiry