

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.

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?

Investigate More!

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?

