

How Does Matter Change? Part 1

Objective: These activities will allow you to observe ways that matter can change.

Materials:

spoonful of sugar
200 mL of water
beaker

100 mL graduated cylinder
glass stirring rod

Procedure:

1. Use a balance to measure a spoonful of sugar. Make sure to place a slip of paper on the balance first, zero it and then add the sugar. **Record the mass in the data section.**
2. Use the graduated cylinder to measure 200 mL of water. Pour the water into the beaker. Use a balance to measure the mass of the beaker and the water. **Record the mass in the data section.**
3. Add the sugar to the beaker of water and stir with the stirring rod until it is dissolved.
4. What do you think the mass of the new mixture and the beaker is? **Write your prediction in the data section.**
5. Use a balance to measure the mass of the mixture and the beaker. **Record the mass in the data section.**
6. **Describe the appearance of the mixture in the data section.**

Data:

****Organize your data so I can understand it.****

Analyze and Conclude:

1. Was your prediction close to the actual mass of the mixture and the beaker? Why or why not?
2. Did the identity of the sugar change when you added it to the water? (Was it still sugar?)
3. How did the sugar change when you added it to the water?
4. Can the sugar be changed back to its original form? If so, how?