

Solubility Rate

Purpose: How does temperature affect the rate in which sugar dissolves?

Hypothesis:

Part A. Hot Water

1. Run water from the hot tap until it is as hot as possible. Fill a clear glass with exactly 250 mL of hot water.

2. Use the thermometer to take the temperature and record it on your data sheet.

3. Place 1 sugar cube into the water. Measure the time required for tablet to fully

dissolve. Be prepared to start and stop on time. Record the time.

Part B. Room Temperature Water

1. Fill a clear glass with exactly 250 mL of room temperature or lukewarm water.

2. Use the thermometer to take the temperature and record it on your data sheet.

3. Drop 1 sugar cube into the water. Measure the time required for the reaction to be

completed. Record the time.

Part C. Cold Water

1. Fill a clear glass with 250 mL of cold water mL.

2. Use the thermometer to take the temperature and record it on your data sheet.

3. Drop 1 sugar cube into the water. Measure the time required for the reaction to be

completed. Record the time.