

K-2 20-minute Science Lesson

Questions we will answer:

- If we put a sugar cube in hot water, what do you think will happen?
- If we put a sugar cube in cold water, what do you think will happen?
- Do you think there will be a difference in what happens in hot and cold water?

Duties:

Person 1: Get 2 cups and 2 sugar cubes (2 stirring sticks if your teacher wants you to stir)

Person 2: Pour half a cup of hot water. In a separate cup, pour the same amount of cold water.

Person 3: Drop a sugar cube into each cup.

EVERYONE OBSERVES WHAT HAPPENS AND WRITES NOTES ABOUT EACH CUP.

Person 4: Write down a summary of what your group observed in the chart below.

Answer the questions below the chart.

Observations:

	What did you see happen?
Sugar Cube in Hot Water	
Sugar Cube in Cold Water	

Conclusions:

How can you explain what happened to the sugar cube?

You didn't use the stirring sticks, but what do you think would have happened if you had?

Based on what you did today, define the following words. Can you draw a picture to illustrate each?

- Solid:
- Liquid:
- Dissolve:
- Temperature:

3rd - 5th Grade 20-minute Science Lesson

Questions:

- What do you think will happen to a whole sugar cube in water?
- What do you think will happen to a crushed sugar cube in water?
- Do you think there will be a difference in what happens to each sugar cube?

Duties:

Person 1: Get 2 cups, 2 sugar cubes, 1 wooden stick, 1 graduate

Person 2: Measure and pour 25mL of water into 2 separate cups.

Person 3: Use the wooden stick to crush 1 sugar cube.

Everyone: Observe the crushed and the whole sugar cube with the magnifying lens.
Sketch what you see in the chart below.

Person 4: Add the crushed sugar cube to a cup of water.

Add the whole sugar cube to a cup water. Observe each for 3 minutes.

Everyone: Write down a summary of what your group observed in the chart below.
Answer the questions below the chart.

Observations:

	View with the Magnifying Lens	What did you See Happen During 3-Minutes?
Whole Sugar Cube		
Crushed Sugar Cube		

Conclusions:

How can you explain what happened to the crushed vs. the whole sugar cube?

Why do you think you didn't need to stir?

If the water had been a different temperature, do you think it would have affected your results?

Based on what you did today, define the following words.

- Solid:
- Particles:
- Liquid:
- Dissolve:
- Mixture:
- Solution: