



STEAM STARZ

STEAM @ Home

“Converstation Hearts Experiment”



STEAM Explanation:

- Conversation hearts are primarily made of sugar, which is water-soluble.
- As the liquids surround and interact with the sugar molecules, they weaken the bonds holding the sugar together, causing the hearts to disintegrate. (test to see which liquid dissolves the hearts).
- In the water jar, the hearts float because they are less dense than water.
- In the oil jar, the hearts also float because they are less dense than oil.
- In the vinegar jar, the hearts sink because vinegar is denser than oil and water.

Materials:

- Conversation hearts candy
- Jars (3)
- Liquids (any kind will work). - Water, Oil, and Vinegar are used in this experiment.
- Sharpie
- Paper
- Pencil

STEAM Activity:

What do you think will happen to the conversation hearts in different liquids?

Step 1: Fill the three jars with liquid (vegetable oil, water, and vinegar) about 3/4 full.

Step 2: Add in a handful of conversation hearts to each jar.

Step 3: Label each jar with the type of liquid using the marker.

Step 4: Using the piece of paper and pencil, write Scientific Method (Predict, Observe, Analyze, Test, and Conclude).

Step 5: Throughout the day and following day, make observations to the different liquids.

Step 6: Fill out the paper as the experiment goes.

Step 7: Discuss the conclusions. “What happened to the hearts in the different liquids.”
“Why do you think that happened?”