



Science: What Makes Bubbles?

Description: Today you will be teaching your children about the process of **experimenting** by **predicting** what makes bubbles.

Time: 15-20 minutes

Materials:

- 1 blue plastic tray 12"x16"x1"
- Half a cup of salt
- Half a cup of sand
- Half a cup of baking soda
- 1 eye-dropper
- 1-6 oz. clear plastic tumbler filled with approximately halfway with vinegar

Vocabulary

- **Experiment** is a test that is set up the same way each time with just one material changing.
- **Observation** is the process of using our sense to collect information.
- **Prediction** is a statement of something that we think will happen in the future.

Pre-requisites

- Pour a half cup of salt, sand, and baking soda onto your colored plastic tray leaving approximately 2 inches in between the elements



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Lesson

1. Say to the children, "Today we are going to do an **experiment**". Encourage the children to repeat the word "**experiment**". Explain to the children an **experiment** is a test that is set up the same way each time with just one material changing.
2. Say to the children, "Today's **experiment** is called **What Makes Bubbles?**"
3. Begin by letting the children know that you have a tray with three elements; point to the different elements and have the children assist you in identifying them.
4. Show the children the eye dropper and explain it is an instrument that will help us transfer vinegar onto the different elements.
5. Say to the children, "We are going to make a **prediction**". Explain to the children a **prediction** is a statement of something we think will happen in the future.
6. Ask the children, "Who thinks the salt and the vinegar will make bubbles?"
7. Repeat step 6 with the sand and the baking soda.
8. Say to the children, "We are going to begin our **experiment**."
9. Using the eye-dropper, squeeze five drops of vinegar into the salt to see what will happen. Engage in a conversation of what the children saw. For example, if the children express that the sand became darker when the vinegar was placed onto it; you can say, "We observed the sand became darker; why? Can it be because it is wet?"
10. Repeat step 9 with the salt and the baking soda.
11. Finish by explaining to the children that only one of the predictions was correct; which was "Baking soda and vinegar made bubbles".