



"Be a Microbiologist"

Job Task:

You are a microbiologist, a scientist who studies the growth, structure, development, and general characteristics of microorganisms. If we did not have microorganisms, a lot of the food and drinks we enjoy would not exist. One of the key ingredients in making many foods and drinks is yeast. Yeast is a eukaryotic, single-celled microorganism classified as a fungus. Your job is to investigate how yeast works and why it is used to produce a lot of our foods and drinks.

Time Frame: 1-2 hours

Materials:

- One packet of active dry yeast
- Two empty water bottles
- A teaspoon
- Sugar
- A permanent marker
- A measuring cup
- Warm water
- Two balloons

Procedure:

- 1. Begin by pouring half a packet of yeast into each bottle.
- 2. Add eight teaspoons of sugar into one of the two bottles. Mark this one with the permanent marker so you know it has the sugar in it.
- 3. Pour 1 ½ cups warm water into each bottle.
- 4. Replace the cap on the water bottles, shake, then remove the cap.
- 5. Stretch a balloon over the opening of each water bottle.
- 6. Observe.