

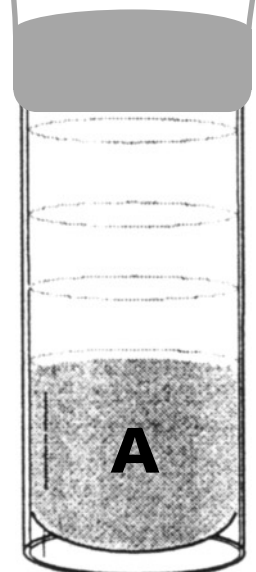
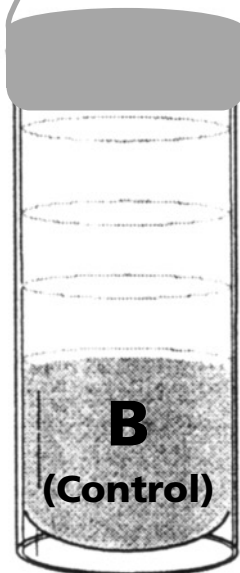
Yeast Power !! 1

Name

Date

- ◆ Is yeast a living organism?
- ◆ Carry out this investigation with a partner to find out.

1. You will need: yeast (fresh or dried fast-acting), sugar, talcum powder, warm water, thermometer, plastic tubes, balloons, measuring cylinder and teaspoons.
2. Take two plastic tubes; remove the lids and label A and B (control).
3. Measure out 1 level teaspoon of sugar and add it to tube A and 1 level teaspoon of sugar and add it to tube B.
4. Measure out 1 level teaspoon of yeast and add it to tube A.
5. Measure out 1 level teaspoon of talcum powder and add it to tube B.
6. Add 15 ml of warm water to both tubes A and B. (Use a thermometer to check that the temperature of the water is between 37 and 40 °C.)
7. Screw the lids back onto both tubes.
8. Shake both tubes vigorously to thoroughly mix the yeast, sugar and water together in tube A and the talcum powder, sugar and water together in tube B.
9. Remove the lids.
10. Stretch the neck of a balloon so that it fits over the rim of the tube A. Repeat this procedure for tube B.
11. Put the tubes in a warm place for 30–45 minutes. Observe the tubes every 5 minutes and keep a record of your observations. Take a picture of both tubes with their balloons at the end of the investigation.



What has happened to both the balloons?

Can you give a reason for this?

Remember you are scientists. Do not put anything into your mouth while carrying out the microbial investigation.