

Inquiring into Yeast

Teacher Instructions

- In advance prepare two test tubes: (1) yeast+sugar+water and a balloon covering,(2) test tube with yeast+water and a balloon covering
- Model how you set up the two test tubes and instruct students to make and record their observations
- Some possible questions to experiment could be
 - What water/room temperature helps the yeast create the most gas?
 - What “yeast food” helps the yeast create the most gas? (sugar, syrup, honey, different types of juice)
 - Does the size of the container affect how much gas is created?
- Materials to make available to students
 - Test tubes with test tube racks
 - Sugar
 - Yeast
 - Water (room temp, cold, warm)
 - Different juices
 - Karo syrup
 - Balloons
 - String

Designing an Experiment:

- You will work with your group to design an experiment to answer one of the above questions.
- Refer to your Experimental Design Notes and Designing Experimental Investigations skill sheet.
- You will neatly write all of the following parts ON A SEPARATE SHEET OF PAPER.
 - A. STATE THE PURPOSE
 - B. DEFINING VARIABLES (IVCDV Chart)
 - C. HYPOTHESIS
 - D. MATERIALS
 - E. EXPERIMENTAL PROCEDURE
 - F. RESULTS (Data Table and Graph)
 - G. CONCLUSION