SECTION 2: COMPARING BUBBLE SOLUTIONS

LAB

INTRODUCTION

Challenge your student to determine which brand of dishwashing liquid will make the biggest bubble. This activity presents your students with a way to quantify how well a soap solution forms bubbles. It also introduces the scientific concept of a fair test.

ASSESSMENT ANCHORS ADDRESSED

S4.A.1.1 Identify and explain the pros and cons of applying scientific, environmental, or technological knowledge to possible solutions to problems.

S4.A.2.2 Identify appropriate instruments for a specific task and describe the information the instrument can provide.

S4.C.1.1 Describe observable physical properties of matter.

PURPOSE

Students create and test different bubble solutions to make big bubbles.

MATERIALS

For the class:
*Materials for bubble makers: strainer, small tin cans, protractors, paper, mason jars, straws, tea ball, funnels, toilet tissue and paper-towel rolls, aluminum foil…
3 different types of dishwashing liquid
Glycerin
1 pie pan
*Measuring cups
Vinegar
Paper towels
* 1 pint containers

Teacher provides items marked with *

For the teacher:
*Newspaper
Eyedropper
1 one gallon container
*water
Masking tape
Squeegee
*1 meter stick

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