**SECTION 5: PREDICT­A­POP**

## LAB

**INTRODUCTION**

Blow a soap bubble. Can you tell when it will pop? You and your students may have already discovered that color is one important clue. It’s interesting that color should be a key to predicting bubble

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survival, since we usually think of color as a mere surface decoration. But actually the colors of a soap bubble are produced by a complex interaction between light and matter called interference.

# 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

This activity is a playful introduction to interference, an important phenomenon in that history of physics and in modern industry. Your students will enjoy discovering how to count down the last few seconds of a bubble’s existence.

# MATERIALS

## For the class:

Masking tape \*Newspaper Dishwashing liquid Eyedropper

Glycerin 1 one gallon container

1 pie pan \*water

\*1­ pint sized containers Straws

\*paper \*cafeteria tray

*Teacher provides items marked with \**

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