

Antacid / Film Canister Experimental Lab

Objective:

Design an experiment to determine what conditions will speed up or slow down the reaction rate when antacid tablets are dissolved in water.

Materials:

- (10) antacid tablets
- (1) 35 mm film canister
- water
- stopwatch



SAFETY

Students should wear safety goggles.

Procedure:

1. Plan your experimental procedure, have it approved by your teacher, and then conduct your experiment.
 - a. Construct a list of all materials required to conduct your experiment. You will be provided with a film canister, a stopwatch, ten antacid tablets, and water. Request any additional materials you may need.
 - b. Write a step-wise procedure that explains how you will carry out your experiment. Your procedure should contain enough details so that another person could carry out your experiment from your written procedure. Include quantities of materials used, types of measurements made, and safety precautions taken.
 - c. Construct a data table suitable for recording all observations and measurements.

Questions:

1. What was the hypothesis behind your experiment?

2. What materials did you use?

3. Explain your procedure.

4. What were the results of your experiment?