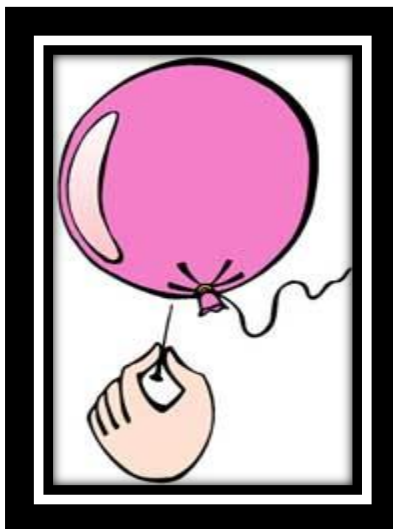


Pop proof balloon



Objective: The student will demonstrate and explain concept of surface tension on a polymer

Materials:

- Balloon
- Cellophane Tape
- Scissors
- Small straight pins

Methods

- Blow up and tie the end close
- Cut several small squares of plastic tape and press them to the surface of the Balloon
- Make sure the edges are smooth down
- Now stick a small pin through each piece of tape. The balloon will not pop.

Explanation:

As you press a pin into the balloon, the adhesive compound on the tape clings around the pin. This forms a seal where the point is inserted, and no air can escape. A balloon pops when air is allowed to escape, and so you have a pop-proof balloon!

Reference:

Drotar , David. (1990). *Fun science*. New York: Playmore Inc., Publishers and Waldman Publishing Corp.

Picture: http://www.cfnr.co.uk/store/info_images/balloon%20pop.jpg

Sign Vocabulary:

- Adhesive
- Surface tension
- Polymer
- Air

Language:

The surface tension of the balloon is protected with the tape, and the tape has an adhesive compound that does not allow the balloon to pop.

Making this an experiment:

- 1.
- 2.
- 3.