



WARM AND COOL BALLOON

Ingredients

- Balloon

Science Terms

- **Joule-Thompson Effect** – As a gas is released through a small opening, its temperature drops.

Instructions

STEP 1: Inflate the balloon and then quickly feel the outside of the balloon.

STEP 2: Deflate the balloon and then quickly feel the outside of the balloon.



Explanation

The inflated balloon feels warm, while the deflated balloon feels cool. The reason, as the air is released through the small opening of the balloon, the temperature drops. It requires energy to force the air through the small opening. The removal of this energy results in a drop in temperature. You can discover more hands-on experiments by going to www.hookedonscience.org.

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