



Girls LAUNCH provide girls and women of all ages with interactive experiences and intimate conversations with female aerospace professionals to boost interest in the unlimited opportunities in aerospace at a young age. This STEMbook activity, resources, and more are available at [www.obap.org/girls-launch](http://www.obap.org/girls-launch).

**In this activity, you will:** Make the sound of thunder in your home.

**Supplies Required:** All Students  
Make the sound of thunder in your home.

## Video

Popping inflated paper bags: <https://youtu.be/Y1vmlgAur5U>

## Overview

Hitting the bag causes the air inside the bag to compress so quickly that the pressure breaks the bag. The air rushes out and pushes the air outside away from the bag. The air continues to move forward in a wave. When the moving air reaches your ear, you hear a sound. Thunder is produced in a similar way. As lightning strikes, energy is given off that heats the air through which it passes. This heated air quickly expands producing energetic waves of air resulting in a sound called thunder.

## Instructions

1. Blow into the brown paper lunch bag and fill it up with air.
2. Twist the open end and close with your hand.
3. Quickly hit the bag with your free hand.

## Additional Resources

- 1 [Weatherwizkids.com](http://Weatherwizkids.com)



[www.obap.org](http://www.obap.org)