

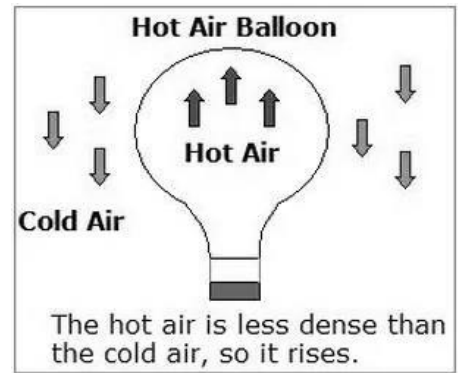
Name: \_\_\_\_\_

## Hot Air Rises

### Making a Mini Hot-Air Balloon:

In this video, Jared makes a mini hot-air balloon. Hot-air balloons use the fact that heating the air inside the balloon will cause the balloon to rise.

This is the same principle that causes sky-lanterns (like those lit on Buddha's birthday) to rise and float on top of the air underneath.



mini hot-air balloon: <https://www.youtube.com/watch?v=yxSiS2WYv2g>

Here is a simple explanation of how those big hot-air balloons—the ones you can ride in—work: <https://www.youtube.com/watch?v=ABsVP41-EeY>

***sink***      ***spread-out***      ***less***      ***rises***      ***cool***      ***warm***

The air inside a large hot-air balloon (the kind you can ride in) is heated with a propane torch. This causes the molecules of air to speed up and \_\_\_\_\_.

As the air inside the balloon expands, some of it gets pushed out of the bottom of the balloon. This makes the air left inside the balloon \_\_\_\_\_ dense than the surrounding air, so it \_\_\_\_\_.

There is a flap at the top of the balloon. When it is opened, the \_\_\_\_\_ air escapes from the balloon and \_\_\_\_\_ air enters to replace it. As the balloon fills with the cooler, denser air, it begins to \_\_\_\_\_ gently back down to the ground.