 Activity 17: Lighter Than Air

**Question**

How can hot air balloons float on air?

**Resource**

Access the website link from the online course.

 [Buoyancy](http://howthingsfly.si.edu/gravity-air/buoyancy)

**Instructions**

**1** Go to the **Buoyancy** website and summarize the major ideas and answer the questions on the **Note-Taking Organizer**.

**3** On the buoyancy website, click the "inflate balloon" button and record what happens.

**4** Click the "watch a video" link on the buoyancy website to see the **Lift: Lighter than Air** video and use the information to help you answer the questions in your organizer.

**Note-Taking Organizer: Lighter than Air**

**Topic:** (What is the website about?)

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**Main Ideas: Complete the chart**

1. What is buoyancy?

**Buoyancy**

2. What makes a hot air balloon float?

3. Why does the balloon start to rise?

**Click "Inflate Balloon"**

4. Why does the balloon stop rising?

**Lift: Lighter than Air**

(watch the [**video: http://howthingsfly.si.edu/media/lift-lighter-air-aircraft**)](http://howthingsfly.si.edu/media/lift-lighter-air-aircraft))

5. What happens when the balloon is filled with cold air?

6. What happens when the balloon is filled with hot air? Why?

7. Why did the balloon fall down?