 Activity 18: Lighter Than Air

**Question**

How can hot air balloons float on air?

**Resources**

Access the website link from the online course.

 Hot Air Balloon Game (website)

**Instructions**

**1** Start by clicking on **Parts** to learn about the parts of your hot air balloon.

**2** Complete the information in the **Training** section of your **Hot Air Balloon Flight Log**.

**3** Click **Lifting**, and in your **Flight Log**, explain how lifting and falling occurs.

**4** Click **Direction**, and in your **Flight Log**, explain how balloons change direction.

**5** Now you are ready to fly! Click **Fly the balloon**, and read the instructions under **How to Play**.

**6** When you understand what to do, click **Play**.

**7** Record the results of your flight in your **Flight Log**. Try at least three flights.

**Observations**

**Hot Air Balloon Flight Log**

**Training**

Briefly describe the following parts:

- parachute valve

- envelope

- burners

- basket

What causes the balloon to lift?

What causes the balloon to fall?

How does a balloon change direction?

|  |
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| **Flight Log** |
| Flight# | Flight Outcome(What happened? Did you land on the target, on the trees, etc.?) | Suggestions for future flights? (such as less head, don't fly so high, etc.) |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |