



PLTW Flight and Space Virtual Learning

8th Grade/Hot Air Balloon

April 28, 2020



8th Grade/Flight and Space
Lesson: April 28, 2020
Day 1 of 2

Objective/Learning Target:
Students will learn about the history of flight in hot air balloons construct and fly a large hot air balloon.

Warm-Ups:

Quick Write: spend 2 minutes writing down everything you think you know about Hot Air Balloons. List as many names of parts as you can. Record your quick write on your [Cornell Notes](#) or notebook paper for the day.



Lesson Introduction/Background Information:

We will be learning about the history and use of balloon flight and in the next lesson we will build and test our own hot air balloon!

Let's start with a vocabulary study from Quizlet on [Hot Air Balloon Terms](#). You will need the knowledge of these vocabulary to follow the directions to build your balloon.

Practice:

Next we will go on a WebQuest to learn about Hot Air Balloons.

Using the website eballoon.org/, look up and answer the following. Record your answers on your notes for the day.

Who is credited with the first Hot Air Balloon launch?

1. When was this event?
2. Who were his passengers?
3. Who made the first manned flight?
4. When, and by whom, was the first North American flight?
5. What has been the highest a balloon had flown?
6. What are the parts of a balloon?
7. Which of these parts do you think you'll make in this class?
8. Share with me 3 other items, facts, tid bits or pieces of information you found on the website, that you didn't learn previously.

Self-Assessment:

Try doing this Quizlet again and see if you are better at it this time.

[Hot Air Balloon Terms.](#)

Answers:

1. Who is credited with the first Hot Air Balloon launch? **Pilatre De Rozier**
2. When was this event? **On September 19, 1783**
3. Who were his passengers? **A sheep, a duck and a rooster**
4. Who made the first manned flight? **Joseph and Etienne Montgolfier**
5. When, and by whom, was the first North American flight? **On January 7, 1793 by Jean Pierre Blanchard**
6. What has been the highest a balloon had flown? **In 1960 Captain Joe Kittinger at a height of 102,000 feet**
7. What are the parts of a balloon? **Basket, Burner, and Envelope**
8. Which of these parts do you think you'll make in this class? **Answers vary**
9. Share with me 3 other items, facts, tid bits or pieces of information you found on the website, that you didn't learn previously. **Answers vary**

Extend Your Learning/Continued Practice:

Learn about How Hot Air Balloons Work

Watch how Hot Air Balloons are Launched and Flown

