

History of the Hot Air Balloon

By: Ayla



HOW DO HOT AIR BALLOONS WORK?

The burner burns heat in the balloon so inside the air balloon is really hot and it's hotter than the air outside. This causes the balloon to rise up in the air.

Key idea

Hot air
Rises



Diagram of Hot Air Balloon

Burner- To burn hot air in the balloon to rise.

Envelope- The actual balloon made of nylon which is an elastic synthetic polymer.

Parachute Valve- the air hole in the balloon.

Gores- the design

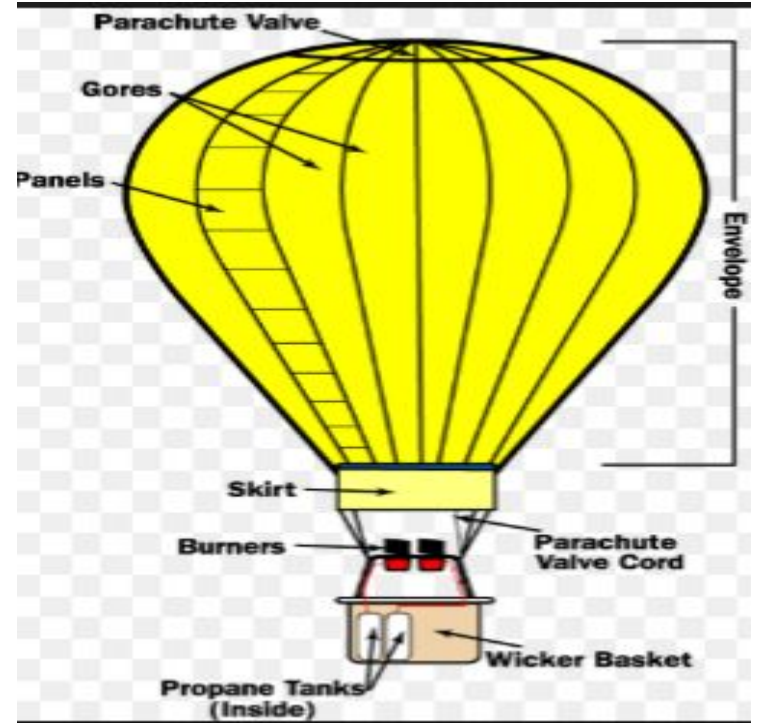
Panels- retains heat and air.

Skirt- Made out of fireproof material so balloon doesn't catch on fire

Parachute Valve Cord- to lower the hot air balloon when in the air.

Wicker Basket- a material of wicker used to carry up passengers

Propane tank - used to fire up the burner.



History of a Hot Air Balloon

The first hot air balloon was made by a scientist named Pilatre De Rozier in 1783. The hot air balloon was named “Aerostat Reveillon”. On September 19th, 1783, it was set in the air with a duck, a sheep, and a rooster. It lasted approximately 15 minutes before it crashed.

On November 21st 1783, brothers Joseph and Etienne Montgolfier, became the first men on a hot air balloon and it flew for 20 minutes.

In 1785, Jean Pierre and John Jefferies became the first people to cross the English Channel and Pilatre De Rozier decided to cross the channel and later died because of an experimental design which caused the balloon to explode in the air. There has been many successes and failures through people taking a ride on the hot air balloon. The hot air balloon has been a very important part of history and there have been many records on the hot air balloon. Who knows what might happen in the future.

Hot Air Balloon Video - watch videos to learn more

These videos teach and explain a lot of cool information about hot air balloon such as what a hot air balloon it, how it works, and how it's made. Read to find out more today.

<https://www.youtube.com/watch?v=JOjyNXNAsJQ>

<https://www.youtube.com/watch?v=-Ov2E5zmGgQ>



Hot Air Balloon Website

These websites teach a lot of fun and interesting facts about hot air balloons. There is also a lot of cool information such as, who made, why they made it, how it's made, and more cool facts. Read to find out more today.

<http://justfunfacts.com/interesting-facts-about-hot-air-balloons/>

<https://nvaloft.com/2013/02/26/who-invented-the-hot-air-balloon/>

<https://eballoon.org/history/history-of-ballooning.html>



Book- get at local library and read to learn more

EyeWitness Books - Flying Machines

Launch a Flying Hot Air Balloon



EyeWitness Books - Flying Machines is about all sorts of old fashion flight sources such as planes, hot air balloon, interesting and important parts of a plane, history, and fun facts. Launch a Flying Hot Air Balloon is filled with so much cool information. For example, it has information on how certain parts of the balloon are built, why a hot air balloon flies, fun facts about a hot air balloon, flight records of hot air balloons, and much more.

Resources

<https://www.pinterest.com/mirindabuxton/hot-air-balloons/>

http://www.chm.bris.ac.uk/webprojects2003/hetherington/final/Hot_air_balloon_parts.html

<https://www.virginballoonflights.co.uk/science-of-hot-air-ballooning/>

<https://rohrballoons.com/hot-air-balloon-trivia/parts-of-a-hot-air-balloon/>

<https://www.explainthatstuff.com/how-hot-air-balloons-work.html>

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Eye Witness Books- Flying Machines

<https://eballoon.org/history/history-of-ballooning.html>

<https://www.istockphoto.com/illustrations/inside-hot-air-balloon?sort=mostpopular&mediatype=illustration&phrase=inside%20hot%20air%20balloon>

Launch a High Flying Hot Air Balloon