## Sensational Scientists

## The Wrigi

use the sketch below to try making one yourself?

Sabel Thomas soors through the world's first powered flight.

to build copies they could experiment with. Why not helicopter powered by rubber bands. They decided (800s, during the Industrial Revolution. When the boys were 12 and 7, their father gave them a toy remarkable story of the team behind the Wilbur and Orville Wright grew up in the late

Wright Flyer was ready. The brothers took the plane to the wide, windy beach at Kitty Hawk, North Carolina, USA, where they had tested their gliders. After tossing a coin to see who would fly first, Orville took off.. weight of the engine and propellers. By December 1903, the in their gliders, but had much bigger wings to lift the extra Their new aircraft used the controls they had perfected

was taken to the

and stayed up for just 12 seconds) But it was a great start.

have believed that For some years,

flight is possible

for humans.

On the fourth attempt, Wilbur travelling 260 metres! As they talked about other flights that day. piloted the plane for 59 seconds,

They made three

the successful flight, disaster struck. A gust of wind tipped the Flyer over and rolled it across the sand. The plane never flew again, but it had done its job.

were always encouraged a lot to pursue intellectual interests; environment where children to investigate whatever enough to grow up in an aroused curiosity We were lucky

> about our thoughts and dreams. shared all our toys and talked

were little, Orville and I

From the time we

Nearly everything we did and

invented was the result of discussions (and

sometimes scraps!)

This rotor is fixed to the straw

Angle the rotating top wings so that they are at opposite angles to the fixed bothom wings. Twist the top wings articlockwise to power up the band ready for filight.

paperclip anchors

Hook taped t

Rubber band helicopter

They built a wind tunnel and tested up perfect glider, they were ready for the first glider in 1900. For the next three they were happy! Once they had the to 200 different wing shapes before years, they improved their designs. Wilbur and Orville built their next step: powered flight.

the age of the flying home, knowing that goods and returned

invention, interest in powered flight exploded the secret of mechanical flight. The brothers

travelled to Europe to demonstrate their

and they began selling planes to customers. and they returned to the USA as celebrities.

including the US military.

In 1906, their patent was finally granted,

We packed our

The Wright brothers had finally unlocked

machine had come

at last

The Wright brothers decided to

their plane. No one else could

build them an engine light

use a petrol engine to power

aeroplanes changed the world and made sure flying in 1915, but he spent the next 33 years even helped to design the world's first guided that the Wright brothers' contribution to the missile during World War 1. He watched as championing the development of flight. He In 1912, Wilbur died suddenly from typhoid. Orville sold their company and stopped world was never forgotten.







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which is still the main material

used to build aircraft today.

lightweight metal aluminium,

opened a bicycle shap. They even built 300 of their own bicycles

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ery and build a flying machine, they read everything they could - five of which are still around today. The brothers combined hands-on tinkering with scientific skill. When they decided to

flight before carrying out their own ex

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Both brothers loved building and fixing things. In their 20s, they

built their own. They used the

so the brothers designed and

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enough to get off the ground

## SENSATIONAL SCIENTISTS - THE WRIGHT BROTHERS

- Q1. In what period of history were the Wright brothers born? (Not the date!)
- Q2. How old were they when they became interested in 'flight'?
- Q3. What does the word 'scraps' mean?
- **Q4.** Complete the grid below using information from the whole text. Either write a question or an answer depending on which section is missing. The first one has been done for you.

Question	Answer
How old were the Wright brothers when they owned a bicycle shop?	In their 20s.
What tragedy happened in 1912?	
	A piece of wood and fabric from the Wright Flyer.
Their patent was finally granted in which year?	
	Up to 200.
Where was the Wright Flyer tested?	





