

A stack of colorful folders in shades of red, orange, yellow, green, blue, and purple is on the left. A white computer mouse with a cord is on the right. The background is a light gray gradient.

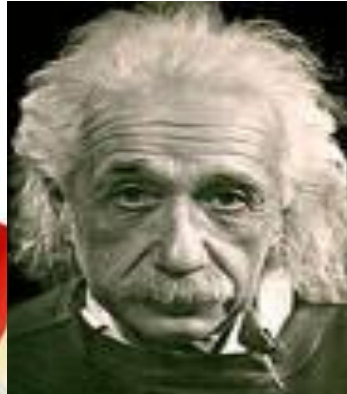
FIELDS OF SCIENCE

Module 3a

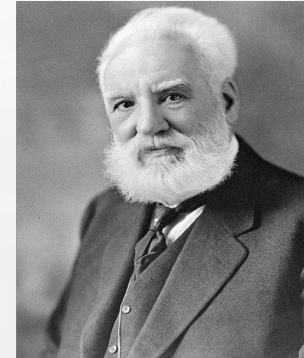
WHAT ARE THEY FAMOUS FOR?



Yuri Gagarin



Albert Einstein



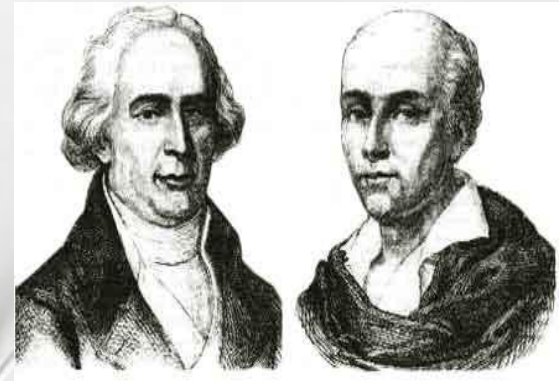
Alexander Graham Bell



Bill Gates



Karl Benz



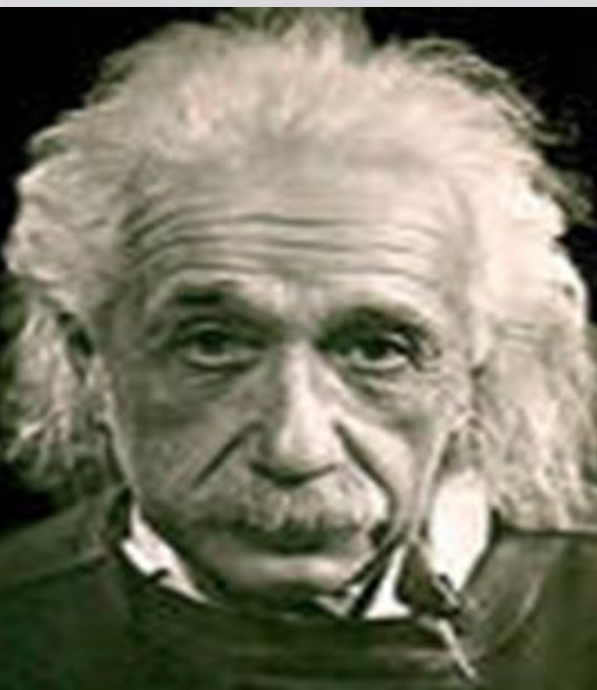
Montgolfier brothers



Yuri Gagarin

- The first flight to the space

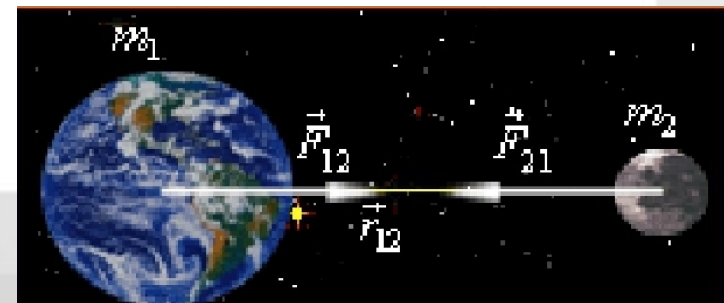


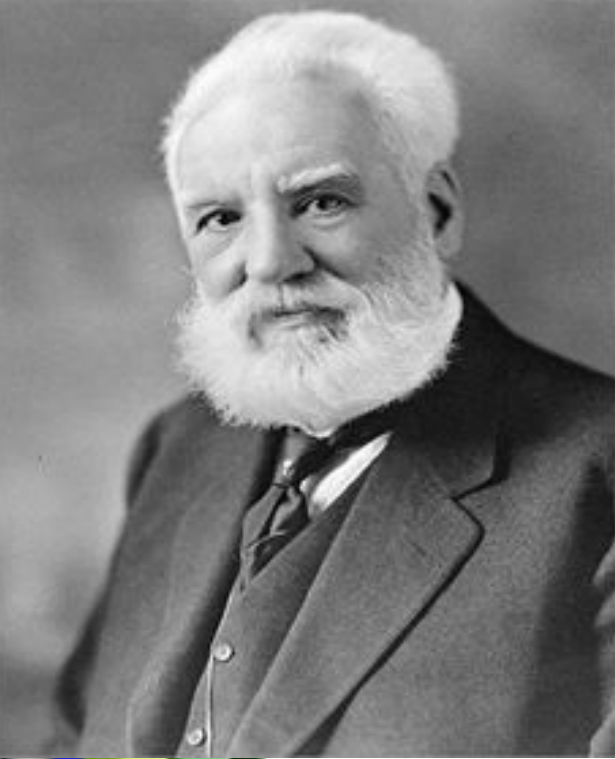


Albert Einstein

- The theory of gravity

$$F = G \frac{m_1 \cdot m_2}{R^2}$$





Alexander Graham Bell

- The first telephone





Bill Gates

- The founder of Microsoft



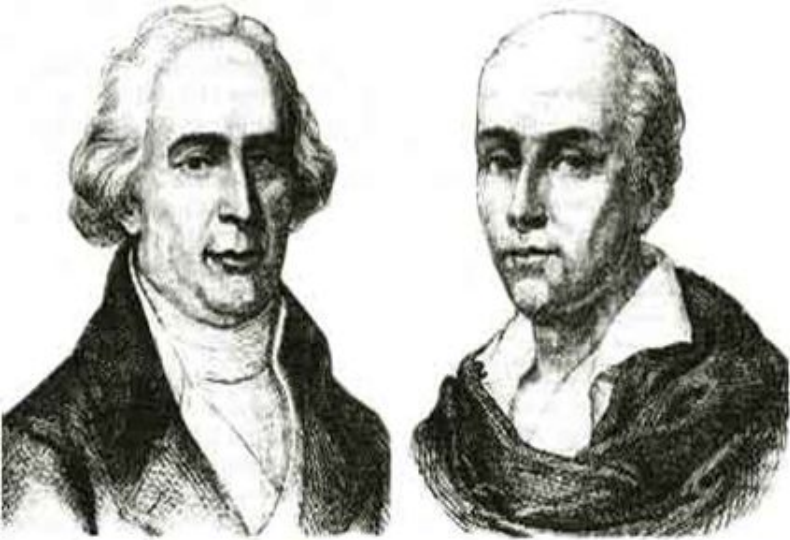


Karl Benz

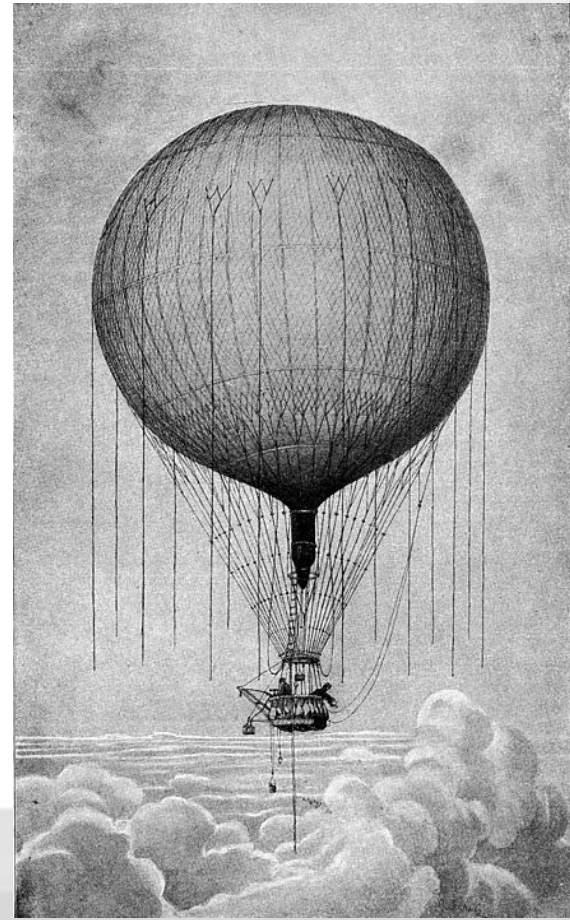
- The first automobile



Montgolfier brothers



- The first hot-air balloon



HOT-AIR BALLOON

What do you know about hot air balloons?

Hot-air balloons can fly to high altitudes. They have carried humans since the late 18th century.



HOT-AIR BALLOON



- Laundry
- Notice
- Float
- Curious
- Come to the conclusion
- Carry
- Craft
- Capture
- Straw
- Safe and sound
- Heat
- Realise
- Success
- Raise
- Put up

- Прачечная
- see
- Плыть в воздухе
- Любопытный
- decide
- Носить
- Средство передвижения
- catch
- Солома
- Целый и невредимый
- Жар
- understand
- Успех
- Lift
- Поднимать

study skills

Multiple-choice reading

Read the text quickly to get an idea of what it is about. Read the questions one at a time, then find the part of the text the question refers to. Go through the choices and choose the one that fits best. The information may be worded differently.

- 3 They burned straw to ...
 - ☒ help the balloon go up.
 - b) make the balloon lighter.
 - c) make the balloon move faster.
- 4 The first flight was watched by ...
 - a) the king only.
 - b) just the Montgolfier brothers.
 - ☒ a lot of people.

2 Read the text and choose the correct answers. Give reasons.

- 1 Joseph Montgolfier got the idea for a flying machine when ...
 - a) he saw smoke in a fireplace.
 - b) he saw pieces of paper flying.
 - ☒ he watched a shirt drying.
- 2 Joseph hoped to be a(n) ...
 - a) scientist. ☒
 - engineer.
 - c) performer.
- 5 The Montgolfier brothers asked the king's permission to ...
 - a) send animals up in the balloon.
 - b) send young men only.
 - ☒ send some people.

3

a Match the words in bold to their meanings.

decided

catch

tests

raise

not in danger

showed

4

Fill in: *raise*, *lift*, *put up*. Check in the Word List.

- 1 If you have any questions, please **put** your hand **up**
- 2 John **raised** the glass to his lips.
- 3 This sofa is really heavy. Help me **lift** it.

came to the conclusion

catch

lift

showed

capture

decided

experiments

not in danger

presented

raise

safe and sound

tests

inventor

gathered

passengers

crowds

A



On July 2nd 1900

1) **crowds**.....

of people living in a German town

2) **gathered**..... to watch the

very first Zeppelin airship go up in the air. Similar airships had been around for about 50 years but the Zeppelin was the first airship with a special design that allowed it to travel faster than those built before. The Zeppelin's 3)**inventor**..... was Count Ferdinand von Zeppelin. In 1910, the airship *Deutschland* became the world's first commercial airship. By the start of World War I in 1914, German Zeppelins had travelled over 172,000 km and carried over 34,000 4) **passengers**..... and crew safely.

lift

floating

invention

experiment

presented

B

Christopher Cockerel's idea was to build a vehicle that would travel just above the surface of land or water

1) **floating**..... on a cushion of air. His

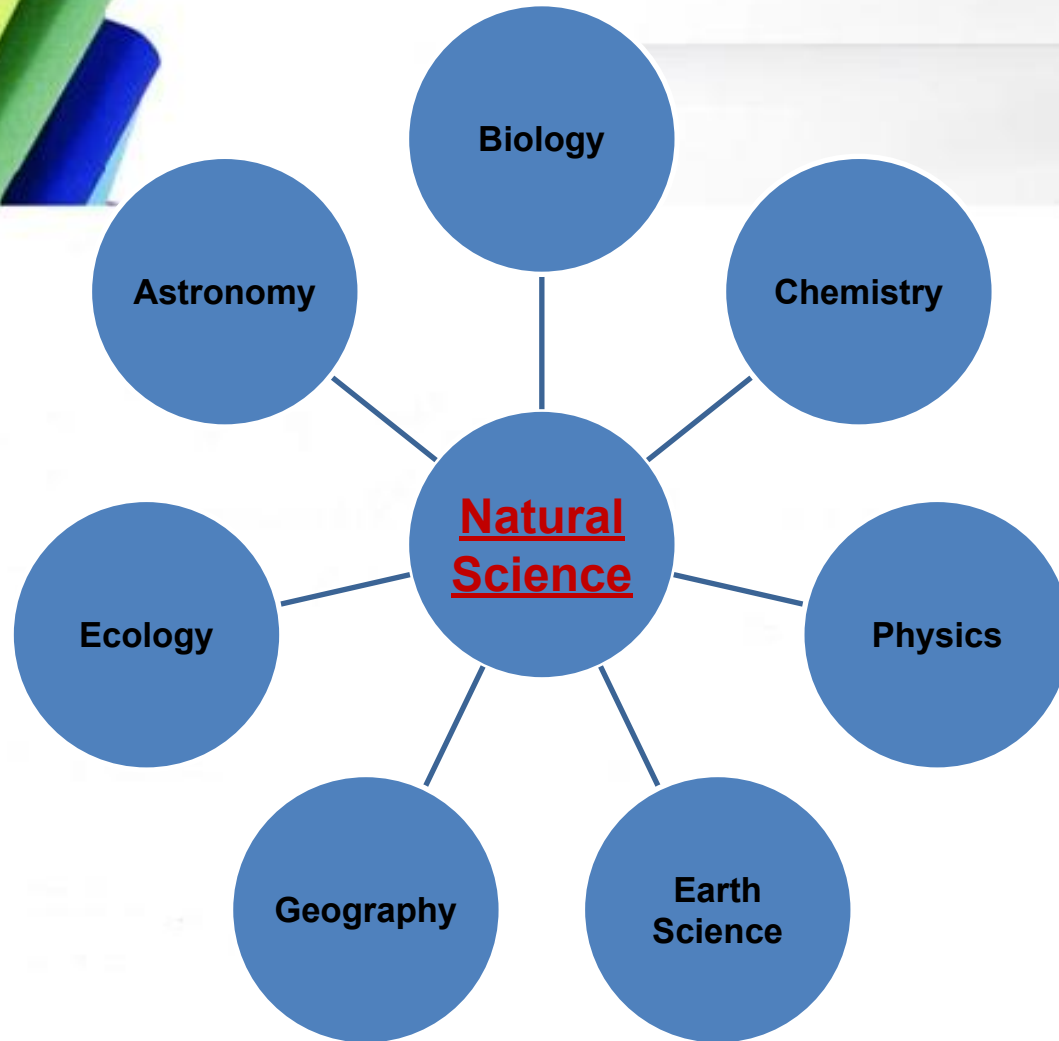
2)**invention** started with two cans, one inside the other, and a hairdryer to blow air into them. The

3) **experiment**..... showed that air could produce enough pressure to 4) **lift**..... a vehicle off the ground.

In 1959, in the English Channel, Christopher Cockerel 5) **presented**..... the first hovercraft which has been used throughout the world ever since for commercial and military reasons.



Fields of Science



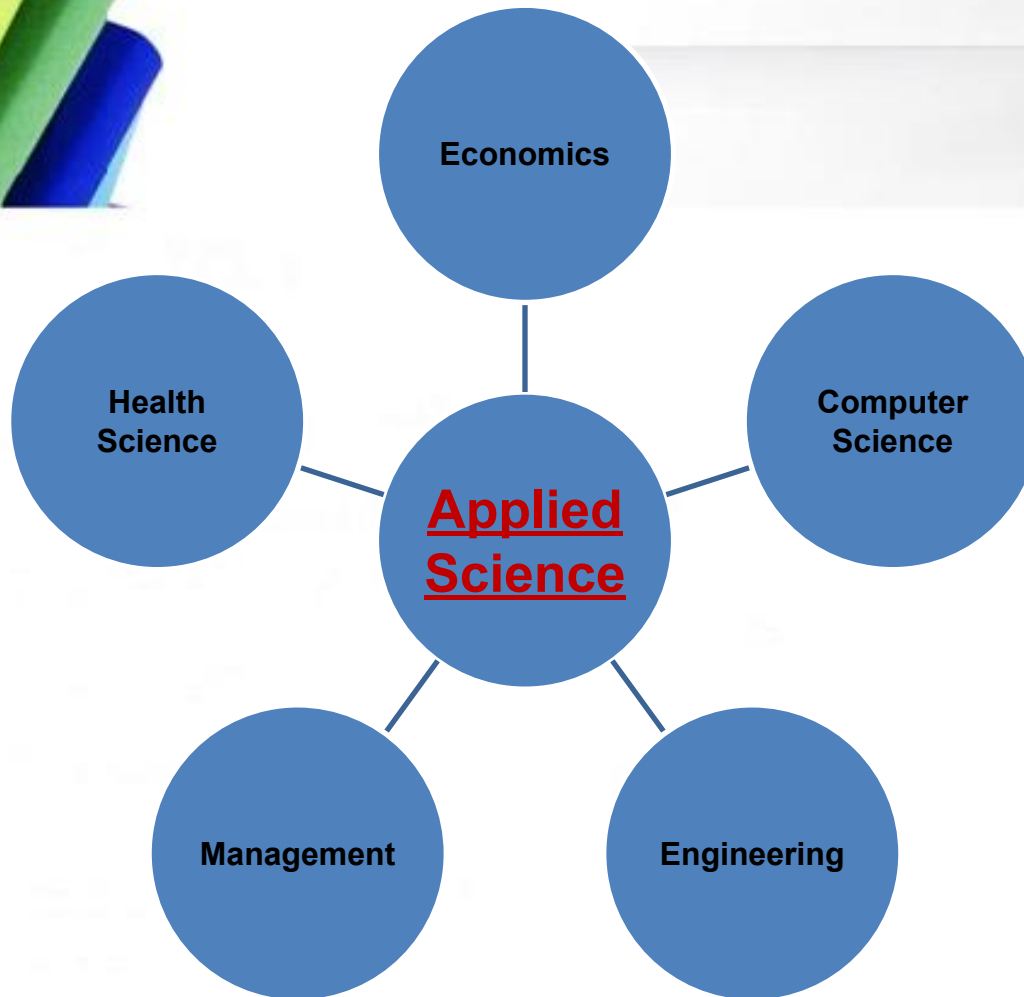
The study of natural phenomena

Fields of Science



The study of the behavior of human beings and societies

Fields of Science



The application of scientific research to human needs

Which subject should people study?

*e.g. To become a computer programmer, you should study
Computer science and technology*

- *To become an accountant, ...*
- *To become a geologist, ...*
- *To become a mechanic, ...*
- *To become a teacher,*
- *To become a web designer, ...*
- *To become a president, ...*
- *To become a surgeon, ...*
- *To become a gardener, ...*
- *To become a scientist, ...*

HOMEWORK

Ex 7 p 43 (SB)

Writing

Dear Jean-Francois,

We finally made it. The first

We made it from To make it float, we The first passengers were

King Louis XVI and The king has agreed

Would you like ?

Best regards,

Joseph Montgolfier