

A stack of colorful folders in various colors (red, orange, yellow, green, blue, purple, pink) is on the left side of the image. A white computer mouse with a cord is on the right side. The background is a light, neutral color.

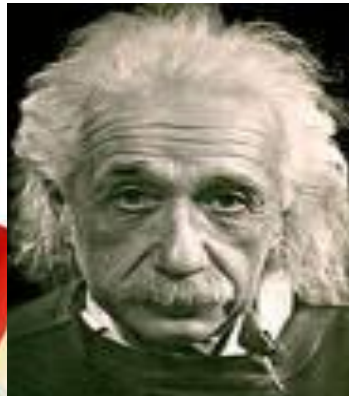
# **FIELDS OF SCIENCE**

Module 3a

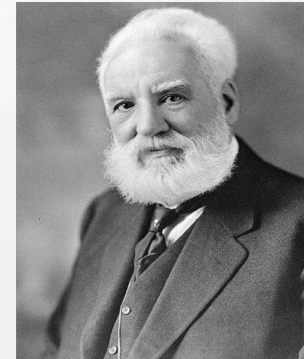
# WHAT ARE THEY FAMOUS FOR?



**Yuri Gagarin**



**Albert Einstein**



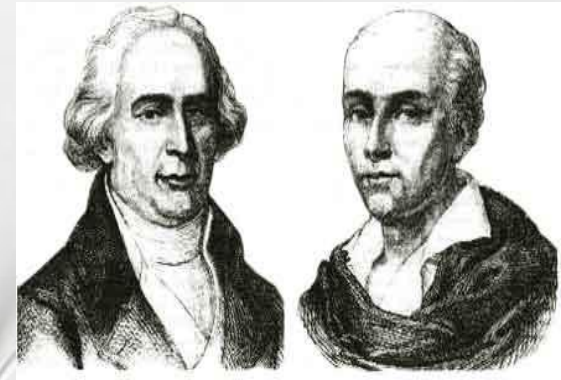
**Alexander Graham Bell**



**Bill Gates**



**Karl Benz**



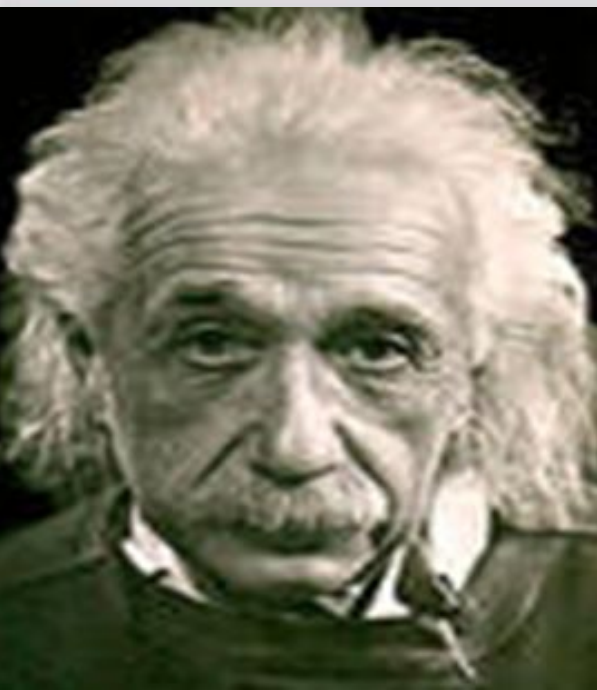
**Montgolfier brothers**

# Yuri Gagarin



- The first flight to the space

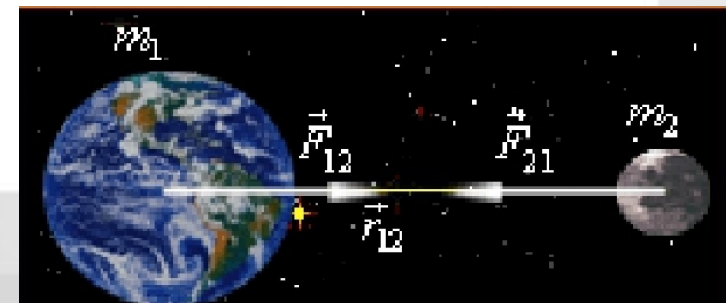




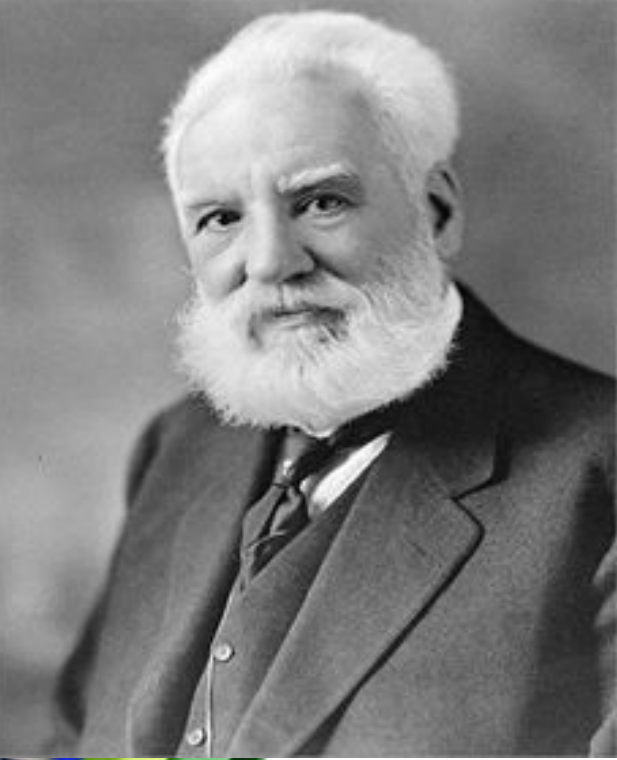
# Albert Einstein

- 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



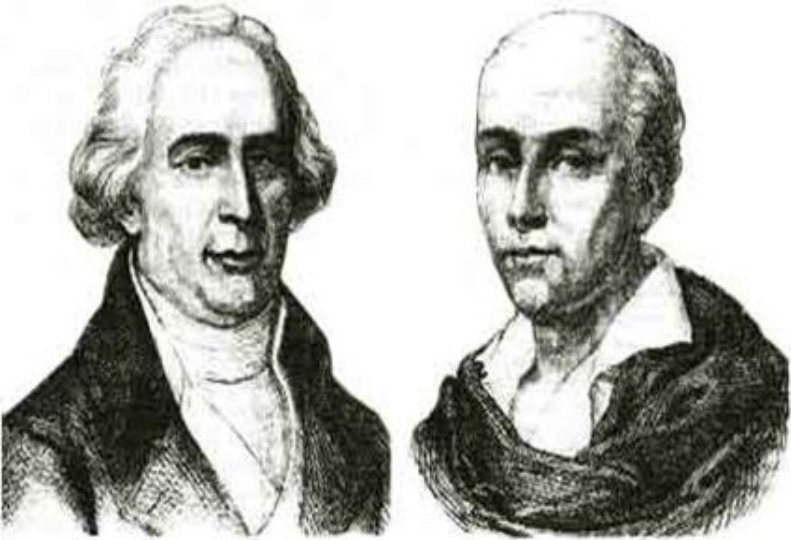


# Karl Benz

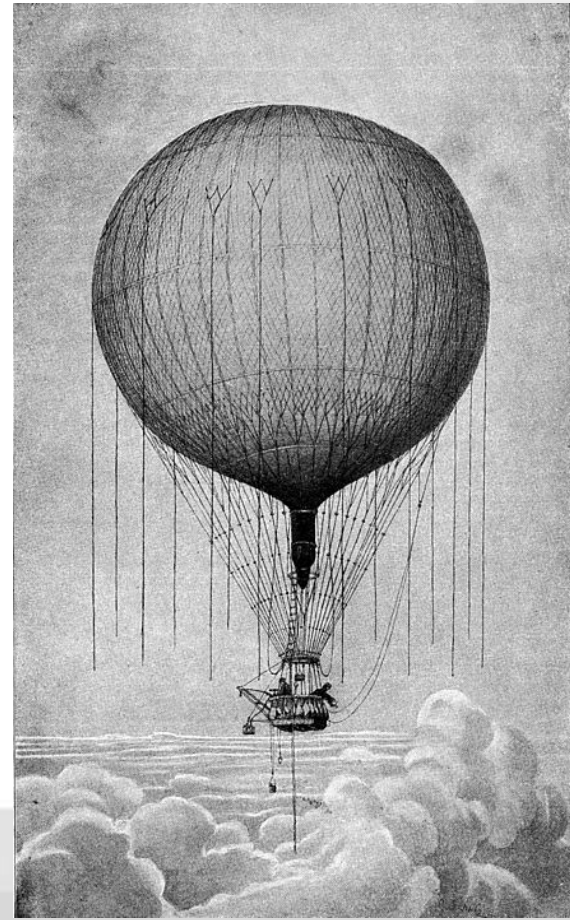
- The first automobile



# 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 ...
  - a) 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.
  - c) a lot of people.

**2** **RNE** 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.
  - c) he watched a shirt drying.
- 2 Joseph hoped to be a(n) ...
  - a) scientist.
  - b) 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.
  - c) 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 2<sup>nd</sup> 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

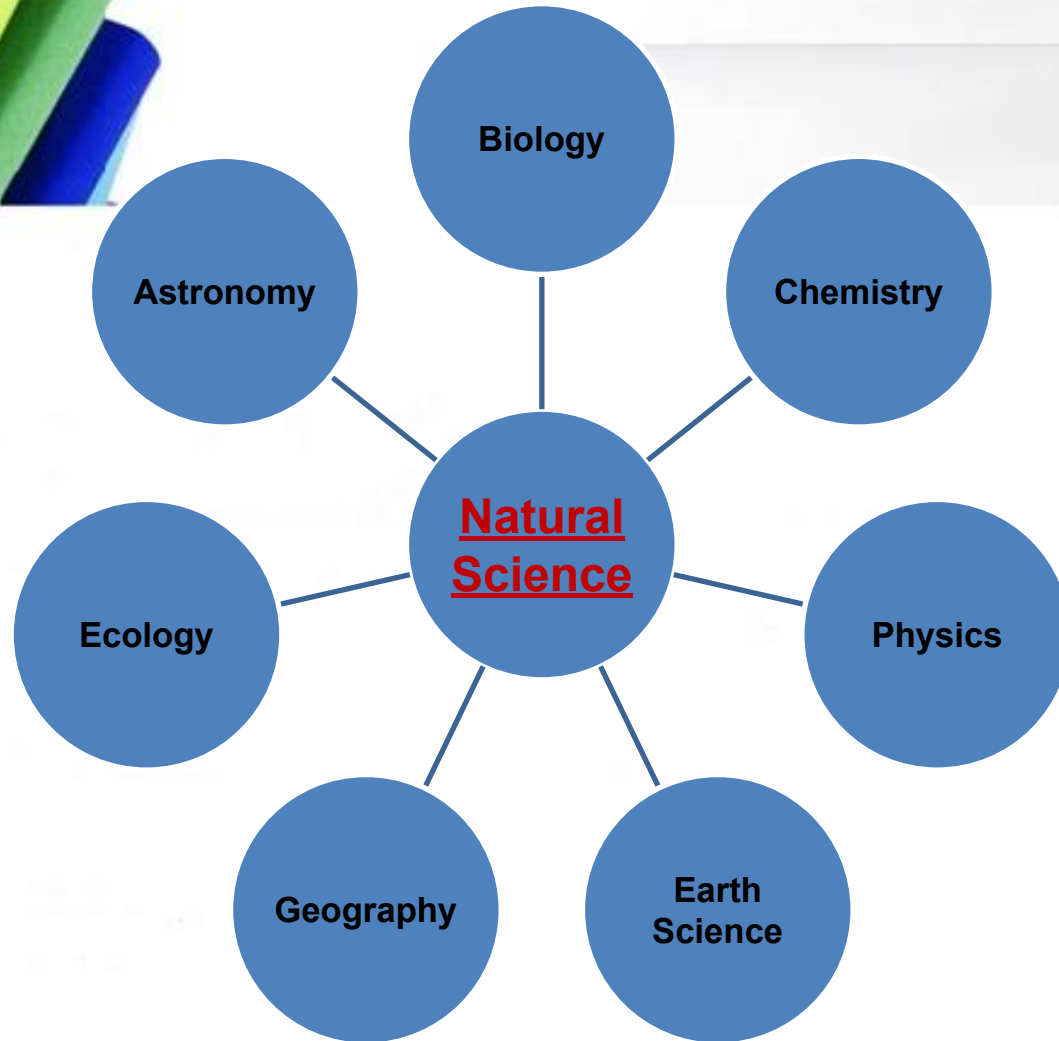
used throughout the world

ever since for commercial and

military reasons.



# Fields of Science



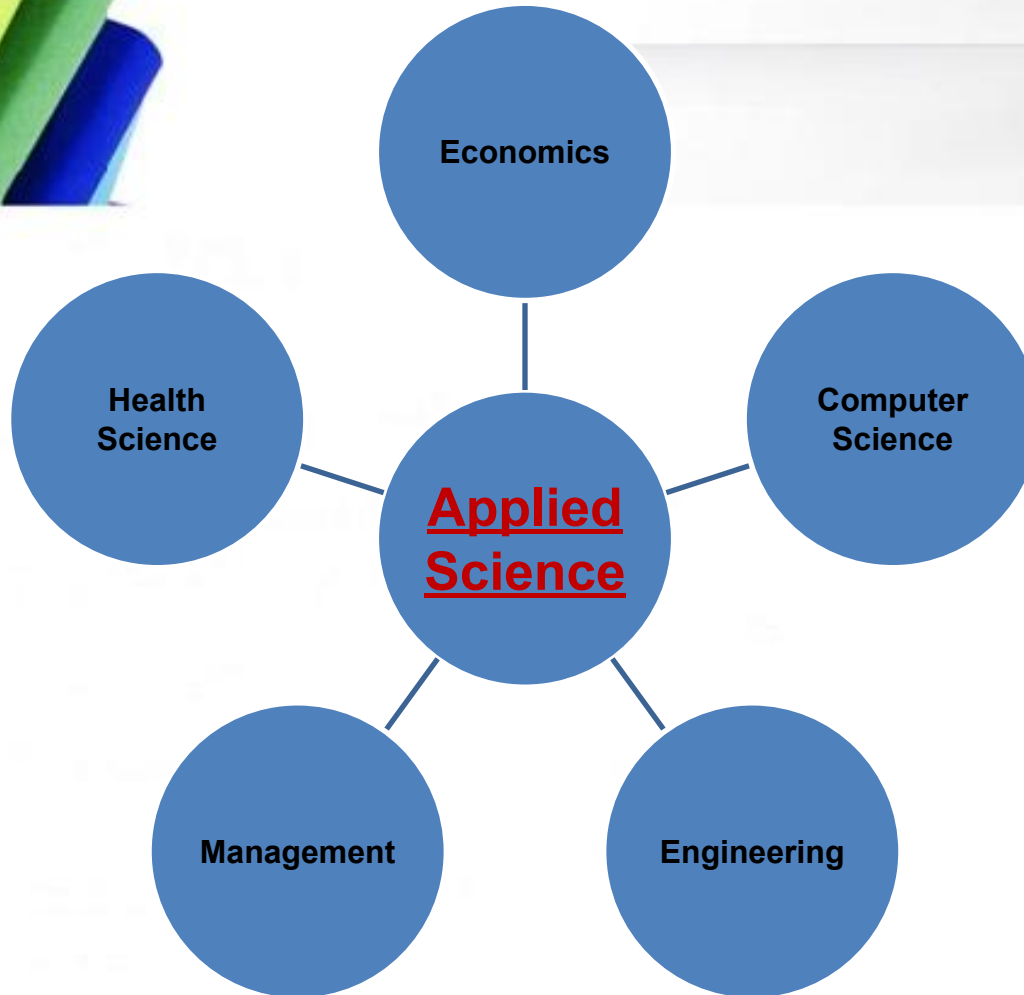
*The study of natural phenomena*

# 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*