



# ELM

English Learning Magazine

September 2012



## Science and Technology

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# Space exploration

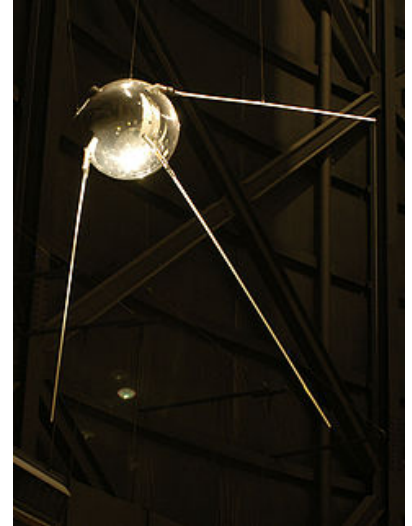
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People had been dreaming of going to stars ever since the dawn of time. But it was only in the 20th century that this dream came true. And there were two men who should get the credit for this – Sergei Korolev and Werner von Braun.

However, in 1940 things didn't look very well for Sergei Korolev. He was in Gulag and he was expected to die. Fortunately for him, Beria ordered a retrial and after 7 months he got out of the Gulag and he was sent to a different kind of prison. Even though he was in prison he could work on designing planes.

In 1950s he was released and moved to a team whose task was to develop intercontinental rockets. And they were very successful. But Korolev's dream was different. He wanted to go to the stars. So he asked the leaders of the Soviet Union for a programme to get a satellite on the orbit. And the leaders agreed.

On 4 October 1957 people from all around the world could hear on their radios strange beeps. These beeps came out of Sputnik – the first man-made object in the space. The Americans were scared and this achievement confirmed their suspicion that the Russians could hit them with nuclear weapons at any time and any place.



**Sputnik 1**

And that was not all. A month later the Soviet Union sent a dog to space. Its name was Laika and it lived for six hours there.

The Americans started to work hard. They contracted Werner von Braun whom they had arrested at the end of the war. No one had been interested in him during the early 1950s because he had been involved in the Nazi's development of the rockets V2. But once the Soviet Union launched the Sputnik his expertise became invaluable.

And on 31 January 1961 the Americans got a chimp safely to the Space and back. But the Russians were still a step ahead and on 12 April 1961 the Russians got the first man into space. His name was Yuri Gagarin. He spent there just a short time, but he got back to the Earth and he became a hero.

This success moved the American president to announce that the USA will get a man on the Moon before the year 1970. The government sent a lot of money to NASA and the real space race started.

Even though money was not a problem, still the Russians were better. In 1963 they sent the first woman to space. Her name was Valentina Tereshkova.

But it was the last Russian achievement. In 1965 Korolev died and his successors weren't able to go on with the rocket he had designed. This new rocket never worked and Brezhnev stopped the space programme in 1972.

At the same time the Americans were fervently working on the Apollo mission. And on 24 July 1969 the Apollo 11 landed on the Moon. Two men came out of it – Neil Armstrong and Buzz Aldrin. There were 5 more successful landings on the Moon, but the whole programme was stopped in 1972. People somehow lost interest in space and the missions were really expensive.

Man hasn't stepped on the surface of the Moon since and all the other space projects were rather modest.

In 1981 the Americans came with the concept of a space shuttle. It should have been a cheap way to get to space, but it didn't work. The flights were really expensive and, as it came out later, dangerous. The first tragedy happened in 1987 when the space shuttle Challenger exploded shortly after the take off.

And when Columbia space shuttle exploded in 2003 on its way back, it was decided to stop the space shuttles forever. The last flight took place in 2011.

Now everyone is waiting for the new development. The governments do not want to spend money on space exploration and the flight to Mars seems like a dream now. Let's hope it will come true one day.



**Apollo 11 crew**

## Yuri Gagarin - GRAMMAR UP



**Yuri Gagarin was born in a family which was not rich**

Yuri Gagarin BE born -- family ---- BE not rich

**but they were not poor either. There were four children**

but they BE NOT poor either. There BE four children

**in the family. During the WWII**

in --- family. ----- --- WWII

**the Germans took their house and**

--- Germans TAKE their house and

**they had to live in a house made out of mud.**

they HAVE -- LIVE --- house MAKE --- -- mud.

**Two of his siblings were sent to Germany for slave labour and they returned only in 1946.**

Two -- his siblings SEND -- Germany --- slave labour and they RETURN only -- 1946.

**When he was young Gagarin became interested in space and planets. In 1955**

When he BE young Gagarin BECOME interested -- space and planets. -- 1955

**he entered military flight training.**

he ENTER military flight training.

**In 1960 he was selected among 19 other pilots for the Soviet space program.**

In 1960 he SELECT ----- 19 other pilots --- --- Soviet space program.

**He was subjected to hard tests and training. In the end he was selected**

He SUBJECT -- hard tests and training. -- --- end he SELECT

**together with Titov. The other pilots then voted who should go first to space**

together ---- Titov. --- other pilots then VOTE who SHOULD GO first -- space

**and seventeen of his colleagues chose him.**

and seventeen -- his colleagues CHOOSE him.

**And on 12 April 1961 Gagarin became the first man to get into the outer space.**

And -- 12 April 1961 Gagarin BECOME --- first man -- GET ---- --- outer space.

**He spent there 80 minutes and then returned to the Earth.**

He SPEND there 80 minutes and then RETURN -- --- Earth.

**He became an international and international hero. He travelled the world**

He BECOME -- international and international hero. He TRAVEL --- world

**and the Soviet Union wanted to prevent him from flying but they didn't.**

and --- Soviet Union WANT -- PREVENT him ---- flying but they NOT.

**On 27 March 1968 he was flying and his plane crashed. The weather was bad**

-- 27 March 1968 he FLY and his plane CRASH. --- weather BE bad

**and he did too sharp turn and the plane crashed.**

and he DO too sharp turn and --- plane CRASH.

# Crossword - Science



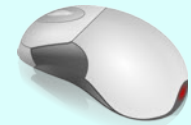
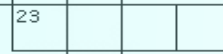
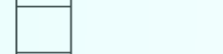
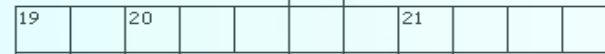
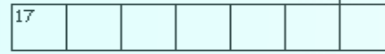
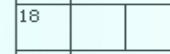
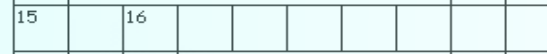
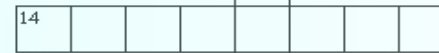
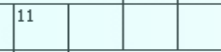
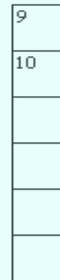
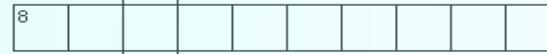
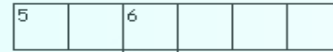
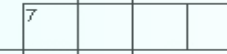
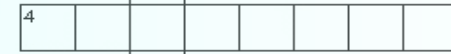
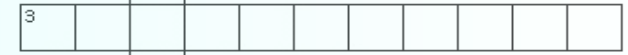
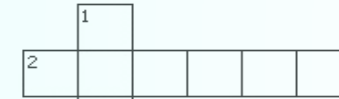
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16 down



22 across



19 down



4 across



18 across



1 down



2 across



14 across



17 across



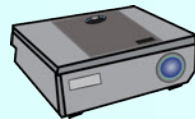
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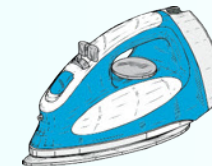
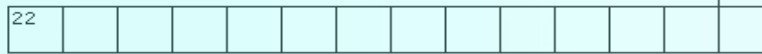
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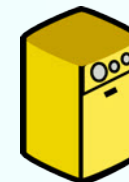
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19 across



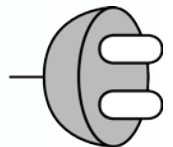
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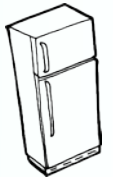
15 across



3 across



7 across



9 down



11 down



13 down



8 across

# MATCH THE WORD AND PICTURES

mouse

computer

camera

keyboard

printer

battery

projector

headphones

socket

washing machine

iron

mobile phone

laptop

dishwasher

loudspeaker

plug

camcorder

fridge

cooker

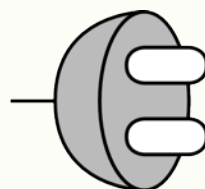
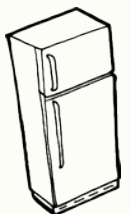
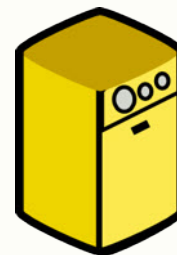
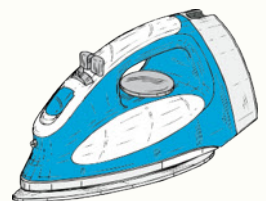
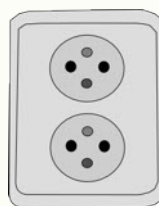
vacuum cleaner

rocket

car

plane

Flash drive



# The Truck



## Chapter 3

„Mr Johnson, the managers asks you to come to his office,“ the secretary said.  
„Can't you just put me through?“ I asked hopefully.  
„Please, could you come up immediately,“ the secretary pleaded. There were tears in her voice. Obviously, the manager wasn't in good mood.

I sighed, picked my bag, and went upstairs. I knocked on the door and entered. The secretary was standing and she seemed really nervous. „You have to go to the manager immediately,“ she repeated and pointed to the manager's door.

She went in front of me and announced me. „Mr Johnson is here,“ she said to the manager and then she turned to me. „You can enter now.“ So I did.

„Sit down,“ the manager said sharply.  
„I am sorry,“ I said, „but I'm short of time.“ I tried to sound as politely as possible. But obviously it didn't make any impression.  
„You have as much time as I give you! And you can leave the school only when I allow you to!“ He shouted at me.  
He was a tall man. He was at least 15 cm taller than me, quite well built, and seemed in shape. He had big blue eyes which now stared at me angrily. The anger made them even bigger.



I hate it when people shout at me. I feel scared. And that was exactly what he wanted. He wanted to make people afraid. He was a kind of bully and his employees hated him for this. He could see how I was feeling. And I could see that it was making him happy. And as every bully he was not going to stop there.

I didn't sit down.

„I'm the only one he who can allow you to go. And you will leave only when I tell you!“ Typical. He needed to have the power. He needed to feel that he was in control and that everyone else was listening to him.

„I have to leave now,“ I repeated.

He stood up and went to me.

I don't know why, but whenever I meet a bully, they never fear me. They see a small guy in front of them who is afraid. And they think they can do anything.

„When I came here you agreed that I can leave whenever necessary,“ I reminded him of our job interview. My voice was trembling.

„This is my school! And here you will do what I tell you,“ he shouted again and came closer to me.

„I have to leave,“ I said and I stepped back. My voice was weak and the manager smiled. He took three more steps and blocked the door.

„You are not going to go anywhere.“

„Let me go,“ I begged but my voice was weak and unnatural. And then he did something that all the bullies do in this situation. He stepped forward and wanted to push me.

A big mistake. Normally if a bully starts pushing his victim tries to escape. If they escape they are laughed at, if they get into a corner they get beaten and they do not defend themselves. But I had been trained differently.

I caught his right hand which was coming to me, turned a bit, and kicked with my right leg quickly.

I felt his weight for a short time on my back. He was a heavy man. Then the weight vanished and there was a loud thud. The manager was lying on the floor and breathed heavily and he couldn't comprehend what had happened.  
I opened the door and went out.

## Chapter 4

She was again in the dark space. Only a trickle of light was coming through the small grid at the top of the metal wall. She was tired and desperate. Her only chance was gone.

She replayed the scene at the gas station again. She was so close. Sidney picked up and she had the chance to say something. But she didn't give him any information. She just called for help. How stupid of her!! Now she had no money and there was no hope for her. When the man saw her using the phone he ran to her, took the receiver and hit her into her belly. She still felt sick. She expected more punches into her face but they didn't come which surprised her.

Why didn't he punch her more? He was obviously angry and more punches would make him happy. But he controlled himself. Why?

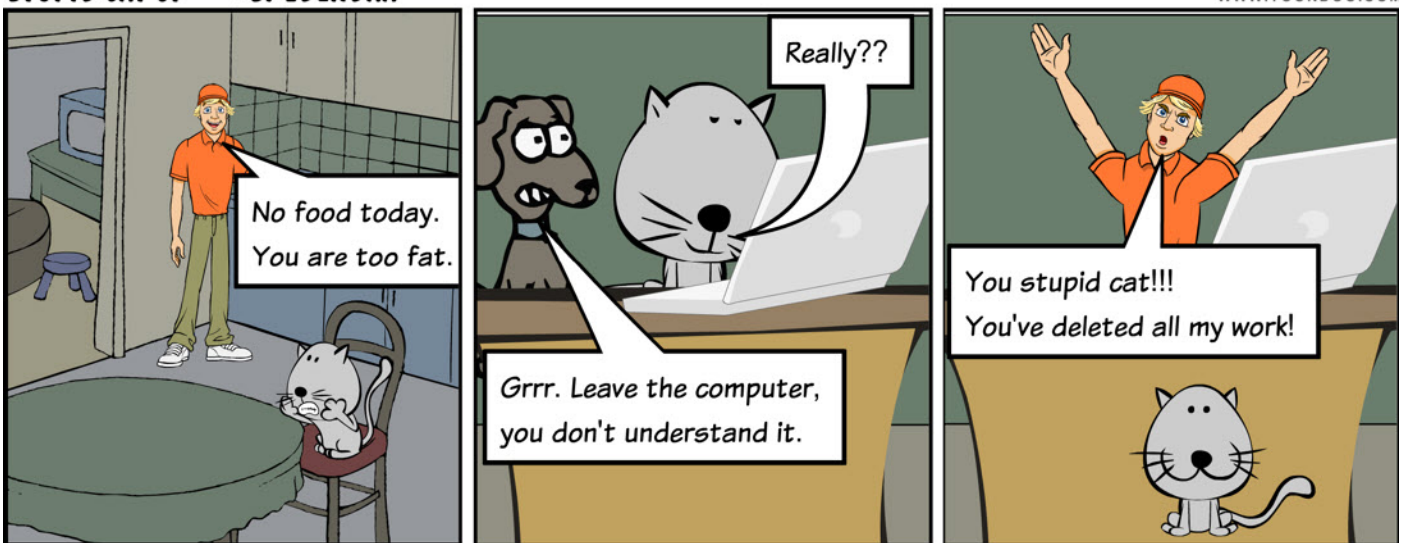
And then it dawned on her. The man's instructions were clear. He mustn't hit her into her face. Her face must remain intact. And when she realised why she started to cry.

She cried and prayed. She hadn't prayed for a long time. But now there was no other option. Her fate seemed to be sealed. The man wasn't allowed to hit her into her face because that was what someone was going to pay for. Her face and body were going to be sold. She was going to be sold to make some men happy. She cried even more.  
She prayed even more.  
Only God could help her now.



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# NEIL ARMSTRONG



**Neil Armstrong was the first man to walk on the Moon. He landed there in 1969.**

Neil Armstrong BE --- first man -- WALK -- --- Moon. He LAND there -- 1969.

**Neil Alden Armstrong was born in Ohio on 5 Aug 1930.**

Neil Alden Armstrong BE born -- Ohio -- 5 Aug 1930.

**His father worked for the government**

His father WORK --- --- government

**and the family moved a lot, because his father often changed positions.**

and --- family MOVE - lot, because his father often CHANGE positions.

**Armstrong flew for the first time when he was six and he fell in love with flying.**

Armstrong FLY --- --- first time when he BE six and he FALL -- love --- flying.

**He admired Charles Lindbergh who was the first man to fly over the Atlantic.**

He ADMIRE Charles Lindbergh who BE --- first man -- FLY ---- --- Atlantic.

**Armstrong could fly when he was 16.**

Armstrong CAN FLY when he BE 16.

**He got a medal in Korean War where the wing of his plane was seriously damaged.**

He GET - medal -- Korean War ---- --- wing -- his plane BE seriously DAMAGE.

**He didn't panic and flew with his plane to the friendly zone and ejected himself there.**

He NOT PANIC and FLY ---- his plane -- --- friendly zone and EJECT himself there.

**After the war he became a test pilot. He was a member of an elite group**

---- --- war he BECOME - test pilot. He BE - member -- -- elite group

**which tested the most modern technology.**

---- TEST --- most modern technology.

**During Gemini 8 mission, Armstrong managed to correct a spinning space capsule**

----- Gemini 8 mission, Armstrong MANAGE -- correct - spinning space capsule

**and save the lives of himself and his co-pilot. He was really shy,**

and SAVE --- lives -- himself and his co-pilot. He BE really shy,

**but his calm and flying skills made him the natural leader of Apollo 11.**

but his calm and flying skills MAKE him --- natural leader -- Apollo 11.

**In 1969, the team of Apollo 11 took off. In the spaceship there were Armstrong,**

-- 1969, --- team -- Apollo 11 TAKE --- . -- --- spaceship there BE Armstrong,

**Buzz Aldrin and Michael Collins. And the spacecraft got to the Moon on July 20.**

Buzz Aldrin and Michael Collins. And --- spacecraft GET -- --- Moon -- July 20.

**However, the place which had been chosen on the Earth was very bad for landing**

However, --- place ---- CHOOSE -- --- Earth BE very bad --- landing

**and they had to find another place. They had only 20 seconds of fuel left when they finally landed.**

and they HAVE -- FIND another place. They HAVE only 20 seconds -- fuel left when they finally LAND.

**„The Eagle has landed,“ were his first words for the mission control.**

„The Eagle LAND,“ BE his first words --- --- mission control.

**And as he stepped on the surface, he said his prepared phrase: "one small step for man,**

And as he STEP -- --- surface, he SAY his prepared phrase: "one small step --- man,

**one giant leap for mankind". Armstrong then planted an American flag on the Sea of Tranquility.**

one giant leap --- mankind". Armstrong then PLANT -- American flag -- --- Sea -- Tranquility.

**Back on Earth, the astronauts became incredibly famous, but after a few first days,**

Back -- Earth, --- astronauts BECOME incredibly famous, but ---- - few first days,

**Armstrong refused to be the star any more. He lived on an Ohio farm and taught engineering**

Armstrong REFUSE -- BE --- star any more. He LIVE -- -- Ohio farm and TEACHE engineering

**at the University of Cincinnati.**

at --- University -- Cincinnati.

**He refused to give interviews or sign autographs and disappointed many fans with his requests**

He REFUSE -- GIVE interviews or sign autographs and DISAPPOINT many fans ---- his requests

**for privacy. And maybe he was right. For example Buzz Aldrin became an alcoholic,**

--- privacy. And maybe he BE right. --- example Buzz Aldrin BECOME -- alcoholic,

**while Armstrong lived a happy life.**

while Armstrong LIVE - happy life.

**No-one has walked on the Moon since 1972. Let's hope we will return there one day**

No-one WALK -- --- Moon ---- 1972. Let's hope we RETURN there one day

**and maybe we will get even further.**

and maybe we GET even further.

# Vocabulary

Match the words and the pictures:



*Microphone*  
*Headphones*  
*Loudspeakers*  
*Battery*  
*Tablet*  
*Display*  
*flash drive*  
*Jack*  
*wifi connectivity*

## iPad

Complete the text with the sentences on the right

There is a lot of talk about the iPad. (1) \_\_\_\_ At first, experts couldn't decide whether or not it was something people wanted. To many, it was like a giant iPhone. But in the end the commercial success of this gadget showed that it was what people wanted. So what is this gadget and what can it do?

iPad is a tablet computer designed and developed by Apple. It plays audio and visual media such as books, periodicals, movies, music, and games, as well as web sites.

Like iPhone and iPod Touch, the iPad is controlled by a multitouch display. (2) \_\_ Like the iPhone, the iPad is designed to be controlled by fingers.

The display has two other sensors. First adjusts the screen brightness (3) \_\_\_\_ . Therefore you can turn the iPad as much as you like.

The iPad has two internal loudspeakers that plays the sound through two small channels to the three loudspeakers at the bottom-right of the unit. (4) \_\_\_\_

Moreover it has an audio jack on the top-left corner of the device and it provides stereo sound for headphones. The iPad also contains a microphone that can be used for voice recording.

The built-in Bluetooth 2.1 + EDR interface allows wireless headphones and keyboards to be used with the iPad. (5) \_\_\_\_ . You can connect a display or television to the iPad.

(6) \_\_\_\_ . Apple claims that the iPad's battery can provide up to 10 hours of video, 140 hours of audio playback, or one month on standby.

The iPad was released with three options with a 16, 32, or 64 GB flash drive. All data is stored on the flash drive and there is no option to expand storage.

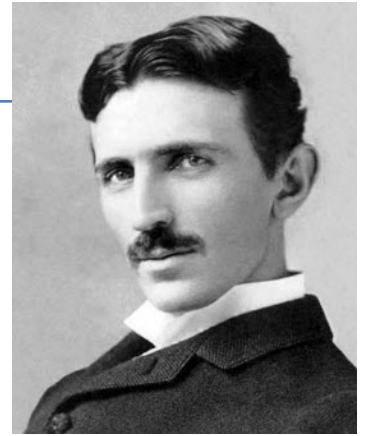
- a. and the other senses iPad orientation and switches between portrait and landscape modes
- b. However, you cannot share files via Bluetooth
- c. It is a touchscreen display 25 cm long with scratch-resistant glass.
- d. The iPad uses an internal rechargeable battery.
- e. When Apple's boss, Steve Jobs, first announced details of it, many people were excited but many were disappointed
- f. A volume switch is on the right side of the unit.

# Nikola Tesla

---

Nikola Tesla was born in 1856 in Austrian Empire. His parents were Serbs, but the place where he was born now lies in Croatia. His father was an orthodox priest and his mother was a daughter of an orthodox priest.

Nikola Tesla was given excellent education at Austrian Polytechnic in Graz but he didn't finish this school. In 1880 he arrived in Prague where he attended many lectures at Charles University, but he was not enrolled.



In 1882 he moved to Paris where he started to work in Continental Edison Company. He designed several improvements here and in 1884 he went to New York to work with Edison. Edison hired him and a year later he redesigned a motor and generator for him. He had been promised \$50,000 for doing this but Edison then said that he had been joking and raised his salary by \$10.

In 1886 he formed his own company but the investors fired him after some time. However, in 1888 Westinghouse licensed his motor and transformer and gave Tesla \$60,000. Tesla became a consultant for Westinghouse and earned quite a lot of money.

In 1893 Tesla demonstrated wireless transmission of electricity at World's Exposition in Chicago. There was a room with the machine and bulbs and tubes which became luminous without any wires.

A year later Tesla started experimenting with X-Ray which was unknown then. He noticed some bad effects of the X-Ray but he thought they were caused by something else. However, it was Rontgen who discovered and described the X-Ray imaging.

In 1898 Tesla demonstrated radio-controlled boat. He hoped that the military would be interested but they weren't.

In 1899 he moved to Colorado Springs where he had room for his high-voltage experiments. He tried to transmit electricity over long distances and he was successful. He observed some unusual signals which he thought to be signals from the other planets, but he was probably wrong. It is now believed that he captured the signals sent by Marconi during his experiments with radio.



He left Colorado Springs in 1900 and five years later his laboratory was destroyed. He started to build Wardenclyffe tower in Boston but it was never finished. It should have served as electricity transmitter.

In later years Tesla claimed that he designed directed-energy weapon which could be used in war. In 1937 he even said he had built it, demonstrated and used it. He said that it was only a question of a little time before the weapon would be given to the world. But when Tesla died in 1943, the American government ordered a physicist John G. Trump to go through all the materials Tesla left but he didn't find any plans or clues to this amazing weapon.

Nikola Tesla died on 7 January 1943 at the age of 86. He lived alone and his dead body was discovered only two days later. Originally he was buried in New York, but in 1957 he was cremated and his ashes were taken to Yugoslavia where they were buried in Belgrade.

# Reading quiz - TESLA

1. Nikola Tesla was born
  - a) In Serbia
  - b) in Austrian Empire
  - c) in Yugoslavia
  - d) in the USA
2. He studied in
  - a) Vienna
  - b) Graz and Prague
  - c) alone
  - d) New York
3. Why did he stop working for Edison?
  - a) He gave him too little money
  - b) He was offered a better job.
  - c) He started his own company
  - d) Edison broke his promise
4. His research was mainly connected with?
  - a) electricity.
  - b) X-Rays.
  - c) biology.
  - d) radio.
5. Before he died he claimed that he invented
  - a) a way to transport electricity without wires
  - b) a new motor
  - c) a new deadly weapon
  - d) extraterrestrial life.
6. What did the American government find in his papers?
  - a) Nothing important
  - b) New fantastic machines.
  - c) Designs of atomic bomb.
  - d) a dead body.
7. Nikola was most prolific between the years:
  - a) 1870 and 1885
  - b) 1885 and 1905
  - c) 1905 and 1920
  - d) 1920 and 1943

# Reading quiz - Frauds

Write into the squares the correct letters:

A Lord of the Clones

B The Tasadays

C Piltdown Man

D Perpetual Motion Machine

Which fraud

was connected with physics

was connected with biology

was connected with sociology

took the longest to be revealed

was only a partly false

earned the scientist a lot of money

was supported by the government

When people first flew into the space they found out that biros were useless there. And that was a problem.

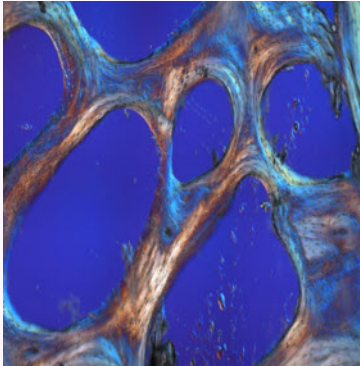
In the USA the government sent \$50 million to several scientific institutions and after 6 years of research they came with a pen which would work even without gravitation.

The Russians solved the problem too. They used the pencil.

# SCIENTIFIC FRAUDS

## Lord of the Clones

In February 2004 U-Sok Hwang announced that his team have successfully cloned stem cells. He claimed that they put cells from a patient into an embryo and the cells started to grow and in this way they could grow any of the 230 kinds of cells which are in human body. Moreover in 2005 the same scientist



announced that he cloned 11 stem cells using 185 embryos where the embryo and the cell came from different people. And in the same year his team introduced a puppy called Snuppy which had been cloned.

However, in 2005 it came out that his team paid for the embryos and the gossips claimed that some women were forced to donate the embryos. A full research started and it came out that the scientific achievements were frauds. Only the dog was really cloned.

## The Tasadays

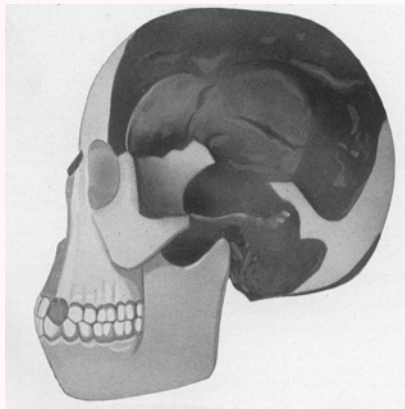
In the 1970s Manuel Elizalde discovered a group of cavemen who hadn't changed for a few thousand years. He discovered them in a few caves in Mindanao. They didn't wear any clothes and they had tools from the stone age. The



tools were made from leaves, wood and stones. They didn't have any weapons, and they ate only berries and whatever they found. They spoke their own language. The dictator of Philippines declared the whole area closed and no scientists were allowed to enter this place. Only the discoverer could make a documentary and there was a foundation to support this tribe. However, in 1986 the dictator had to leave the Philippines and anthropologists came. And they found out that the tribe were normal people who wore jeans and T-shirts and only posed for the cavemen.

## Pitldown man

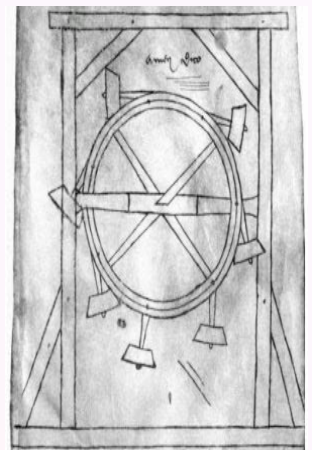
In 1912 a man called Dawson announced that he had found the connecting link between humans and apes. In Pitldown he found a human skull with the teeth of an ape. This was considered to be a perfect transitional form which fit into Darwin's evolutionary theory. However in the 1950s it was proved that this was a fraud. The skull and jaw were connected only by the man who found them. The new scientific methods proved that the teeth were new while the skull was really old.



## Perpetual motion machine

Perpetual motion machine has been the scientists' dream for a long time. Perpetual motion machines appear all the time but it in their 1813 it really seemed that there was a real one. Charles Redheffer introduced this machine in Philadelphia and then in New York, where hundreds of people paid to see the machine.

However, there were many people who were sceptic about this. So they paid a lot of money to prove Redheffer wrong. Redheffer took the money and the sceptics found that there was a belt which went through a wall to a room where an old man was powering the whole machine with his hands.



# 6 Gadgets that Changed the World

## 1 3-D television

The first film in 3-D was shown in the cinema in 1922. No, this is not a typo. It was really in 1922. And in the year 1928 the first 3-D television was made. It was made by the inventor of the normal television John Logie Baird.. But no one was interested in the 3-D technology for a long time because it was extremely expensive. In the 1950s several 3-D films were made but they were considered as something unusual. The real breakthrough came with the invention of the format IMAX 3-D which was introduced in 1986. Nowadays all the TV producers make 3-D televisions. However, for some people 3-D doesn't exist because their eyes are bad and they cannot see it.



## 2 Digital camera



Nowadays hardly anyone has an analogue camera. Most people have digital cameras because you can take hundreds and thousands of snaps at no cost. The memory cards are small and you can save more photographs there than it was possible on a normal film. While the films were expensive, digital photos are really cheap. You can upload the pictures to your computer and then choose the best ones. Moreover, digital photography doesn't change and you can edit it on your computer. The disadvantage of digital cameras is the fact that they develop really quickly and there are so many machines now that it is difficult to know which one is good for you. The first digital camera was introduced in 1988 and it was made by Fuji.



## 3 Game Boy Nintendo

Game Boy was the first digital game which was commercially successful. The first game which was played on Game Boy was Tetris. The first Game Boy was introduced in 1989. Recently the company Nintendo introduced its Wii U machine which is able to play video and the internet content. There are many other gadgets like this for example PlayStation or Xbox but Game Boy was the first.



## Webcam

The first Webcam was used on the premises of Cambridge University. This happened in 1991 and the same camera was used till 2001. Nowadays, WebCam is a common part of computers. You can see nearly all interesting places online. Moreover, they are used to monitor the traffic on highways and streets and all the drivers can see which places they should avoid. The skiers can see whether there is enough snow in the place where they would like to go skiing.

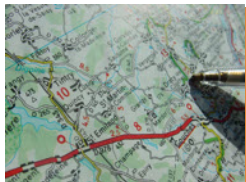


## 5 Smart phone

Do you remember? In 1990s the businessmen boasted with mobile phones which were really big and heavy. Nowadays the smart phones are thin and light and they can do a lot of things. Besides telephoning you can listen to music, connect to the internet, and you can play games there too. The first smart home was introduced by IBM at the beginning of 1990s. This phone had a calendar, address book, clock, calculator, notebook, e-mail and a few games. It had a touch display but it was only black and white. But at the beginning everyone thought that phones like this were unnecessarily expensive and useless. It was only 10 years later when Steve Jobs introduced iPhone and smart phones became incredibly popular.



## 6 GPS



GPS stands for global positioning system which is a positioning system run by the Army of the United States. It is possible to find the exact position and time wherever on the Earth. Originally this system was planned to be used only for the Army. The system was started in 1994 when all 24 satellites were placed on the orbit. Normal people started using GPS in 2000. Nowadays GPS has 32 satellites which are 20 km above the Earth.



## Which gadget:

1. is the oldest
2. can take photos
3. is not for everyone
4. was planned to be used only by the army
5. was forgotten for many years
6. is only for playing games.
7. is nowadays common part of every computer
8. was introduced by Apple


## Brain teasers

A man died and left \$100,000 for his wife, 5 sons and 4 daughters. Each son received twice as much as a daughter, and the widow received three times as much as a son. How much did each daughter get?

Dave ate one strawberry more than Eve. Mike ate one strawberry more than Jane. Dave and Eve ate 10 more strawberries than Mike and Jane. They all ate 60 strawberries. How many strawberries did Jane eat?

You have the letters ERGRO. Put three letters in front of it, and the same three letters behind to form a common English word.

...ERGRO...

You have the digits 1,3,4,6. You have following arithmetic operations : \*, / , + , - , and brackets. You can use each digit only once. You can use any given arithmetic operation as many times as you want, but you have to get the result 24.

## Solution:

### Page 10:

1) E 2) C 3) A 4) F 5) B 6) D

### Page 12:

Tesla: 1. B 2. B 3. D 4.. A 5. C 6. A 7. B

Frauds: D, A/C, B, C, A, D, B

### Page 15:

Gadgets: 1. 1 2. 2/5 3. 1 4. 6 5. 1 6. 3 7. 4 8. 5

### Page 17:

Brain teasers: The daughter get \$5,000.

Jane ate 12 strawberries.

Underground.

$(14-6)*3=24$



## Komeen Story 2 - iPod

