

Výukový materiál v rámci projektu OPVK 1.5 Peníze středním školám

Číslo projektu:	CZ.1.07/1.5.00/34.0883
Název projektu:	Rozvoj vzdělanosti
Číslo šablony:	II/2
Datum vytvoření:	13. 2. 2013
Autor:	Mgr. Jana Jeřábková
Určeno pro předmět:	Anglický jazyk
Tematická oblast:	Cestování, komunikace a svět kolem nás
Obor vzdělání:	Masér 69-41-M/001 - 4. ročník
Název výukového materiálu:	Science and Technology
Druh výukového materiálu:	Pracovní list Science and Technology se slovní zásobou, otevřenými i uzavřenými otázkami a cvičeními k procvičení slovní zásoby.
Čas:	40 minut
Využití:	Shrnutí základní slovní zásoby k tématu Věda a technika, nácvik vyjádření se k danému tématu a procvičení si slovní zásoby na několika cvičeních.

Science and Technology

Nowadays inventions are everywhere and make our life easier. We use them in different situations, e.g. when we work - cook (cooker, oven, blender, toaster), clean (dishwasher, washing machine, vacuum cleaner), travel (cars, planes) or for pleasure and relaxation (television, DVD player, radio, computer).

IMPORTANT INVENTORS - write some information about them:

Sir Isaac Newton.....
Thomas Alva Edison.....
Albert Einstein.....
Sir Alexander Fleming.....
Otto Wichterle.....
Jan Janský.....
Jaroslav Heyrovský.....
Sir Alexander Graham Bell.....

What are the most important discoveries of 20th century?

The twentieth century was the century with the highest rate of technological advances and scientific discoveries. It was mainly caused by the two world wars.

Discoveries and invention of 20th century are nylon and plastics (the first nylon stockings), radar, household appliances - the vacuum cleaner, electric shaver, spin dryer, electric fridge, dishwasher, washing machine; frozen food, radio, airplanes, rockets, satellites, televisions, computers, atom bombs, nuclear reactor, DNA molecule, quantum theory, theory of relativity, insulin, penicillin, cure for syphilis and other illnesses, chemotherapy to treat leukaemia, the structure of atom, Henry Ford's moving assembly line for mass production of automobiles, discovery of the first new galaxy besides our own... .

1996 - 'Dolly' the sheep was born in Scotland. She was produced by cloning a cell.

Space Exploration

1957 - The Soviet Union launched the unmanned Sputnik satellite. It was the first successful orbital launch.

1961 - The Soviet Union put the first astronaut into orbit around the Earth (the first human spaceflight - Yuri Gagarin aboard Vostok 1).

1969 - US Apollo astronauts walked on the moon. Neil Armstrong was the first man who set foot on the moon and said, "That's one small step for man, one giant leap for mankind."

The other planets of the solar system were explored too e.g. Venus, Mars, Saturn, Jupiter, Neptune, Uranus, Mercury.

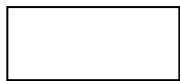
Homework - Answer the questions:

1) Can you name any inventions that changed people's life? How did they change it?

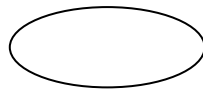
- 2) Is there any type of modern technology that you can't imagine living without? For example if you were shipwrecked on a desert island, what would you miss most?
- 3) What three things would you take with you if you had to spend two weeks alone on a desert island?
- 4) Are there any negative effects of technological development?
- 5) What is cloning and why do some people disagree with it?
- 6) What do you think of testing on animals?
- 7) What do you think the future will be like and how will people live in 100 years?
- 8) How do you think science will develop in the future? What things will be invented or discovered?
- 9) Do you like sci-fi (['saɪ ,faɪ])? Why, or why not?
- 10) What's the best/worst sci-fi you've ever seen?

Label the pictures:

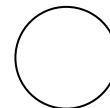
square	circle	triangle	sphere	oval	rectangle	cylinder	cuboid	cube
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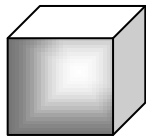
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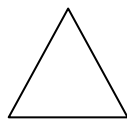
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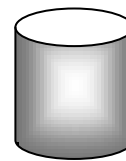
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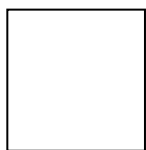
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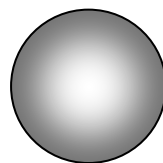
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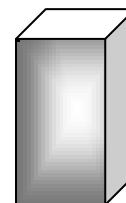
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7.



8.



9.

Complete the sentences with the word in the box:

order	invented	runs	discovered	appliances	down	engine	sockets	spare	power
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- 1) My laptop on batteries so I can work anywhere I want.
- 2) This shop offers electrical such as televisions, DVD players or camcorders.
- 3) We've only had the washing machine for a week and it has already broken

- 4) He knows that the telephone was by Alexander Graham Bell.
- 5) The man who America was Christopher Columbus.
- 6) You can get original parts for all kinds of mobile phones at that shop.
- 7) We use a search when we look for something on the Internet, such as Google or Seznam.
- 8) We bought a new flat and there weren't enough to plug in all electric appliances.
- 9) Traffic lights aren't working because of cut.
- 10) The coffee machine is out of again. We should call someone to fix it.

Match the vocabularies with the correct explanation:

a) Space

orbit	space	alien	spaceship	satellite	astronomer	meteorite
researcher	stars	scientist	comet	universe	solar system	space shuttle

- 1) - a person who studies or teaches biology, physics or chemistry
- 2) - a scientist who studies the stars
- 3) - a scientist whose job is to do research
- 4) - room, empty place/the huge place where there are stars, planets
- 5) - a vehicle that can travel from the Earth to space and back
- 6) - a creature from a different planet
- 7) - a bright thing in the sky that has a light head and a long tail
- 8) - a piece of rock from space that has fallen onto the Earth
- 9) - to circle around a body in space/a path of a satellite that is going around the planet
- 10) - a body in space that orbits a planet
- 11) - the system of planets orbiting the sun
- 12) - a vehicle used for travelling between planets or stars, it usually appears in sci-fi
- 13) - lights that we can see in the sky at night, which are large balls of burning gas
- 14) - all the stars, planets, galaxies etc.

b) Computer

I.

hard drive	log off/out	file	computer	printer	shut down	USB flash drive
memory	computing	virus	click	laptop	Internet	browse

- 1) - a machine that can be used to draw, play games, watch videos, surf the Internet
- 2) - work with a computer, the skills needed for the work on a computer
- 3) - to turn off a machine or a computer
- 4) - a computer program or information causing that the computer stops working properly

- 5) - to do something to leave a computer system
- 6) - a collection of information stored in an envelope or in a computer
- 7) - data storage device that includes flash memory and is removable and rewritable
- 8) - to press the button on a computer mouse
- 9) - to look for information on a computer in a database or the Internet
- 10) - the inner part of a computer that 'remembers' things temporarily
- 11) - a computer network connecting computers all over the world
- 12) - the inner part of the computer that stores information and data
- 13) - a device that is connected to a computer and puts text or graphics on paper
- 14) - a small computer that can be easily carried and used anywhere

II.

type	hard disk	scan	record	monitor	log in/on	scanner
mouse	mouse mat	print	keyboard	joystick	download	Facebook

- 1) - a part of a computer or a typewriter with many keys that is used for typing
- 2) - the inner part of the computer that stores information and data
- 3) - a soft piece of material that you move a computer mouse over
- 4) - to transform a picture, text from a piece of paper into a computer
- 5) - to write something by using a special machine, e.g. a typewriter or a computer
- 6) - to do something to enter a computer system, usually enter the name and password
- 7) - to make a book, magazine; to put text or graphics from a computer on paper
- 8) - a device that is used to control computer programs, you hold it in your hand and move it in the direction you want the cursor on the screen to move
- 9) - a control box with a lever connected to a computer or video games machine, it is used to control games
- 10) - to transfer information, data or files from the Internet to your computer and store it there
- 11) - a device that transfers texts and graphics from a sheet of paper to electronic form for a computer
- 12) - to sing a song or play music and store it on a disc or computer so that it can be played again
- 13)
- 14) - the world's largest social network, with more than 900 million users, founded by Mark Zuckerberg.
- 15) - the part of a computer that has a screen and shows graphics and texts

Build from the word in the first column a word that denotes a person:

science	scientist	archaeology		biology	
astronomy	astronomer	engineering		research	
collect	collector	make		programming	
chemistry		build		operate	
psychology		invent		construct	
geology		indicate		instruction	