

SCIENCE AND TECHNOLOGY

Do not worry about your difficulties in Mathematics. I can assure you mine are still greater.

ATTRIBUTED TO ALBERT EINSTEIN

AREAS OF SCIENCE AND SCIENTISTS

© 2.35 For each discipline, write the name of the person who specialises in it. Then listen, check and repeat the words.

DISCIPLINE	PERSON		
mathematics			
physics	VIII. CORRECT TO THE REPORT OF THE THE REPORT OF THE REPORT OF THE REPORT OF THE REPORT OF THE REPOR		
chemistry			
biology			
geology			
psychology			
archaeology			

SCIENTISTS AT WORK

- Match the sentence beginnings 1–7 with the endings a–g.
 - 1 Thomas Edison invented
 - 2 The British chemist Sir Humphry Davy discovered
 - 3 In the 20th century evidence from genetics confirmed
 - 4 Louis Pasteur rejected the idea that
 - 5 Jane Goodall worked in Africa and studied
 - 6 American doctors Ernst Wynder and Evarts Graham were the first to investigate
 - 7 Isaac Newton observed that
 - a bacteria were born from dirt.
 - b a prism breaks up white light into a spectrum of colours.
 - c Darwin's theory of evolution.
 - d the chemical elements magnesium and sodium.
 - e the light bulb and the phonograph.
 - f the link between smoking and cancer.
 - g the social life of chimpanzees.
- Match the words form the box to the definitions.

ev	dence findings hypothesis lab record	research
1	– something you think is true bu	it have
	not proved	
2	- looking for information	
3	- what you discover as a result of	research
4	- facts or signs that prove some	thing
	s true	
5	- information written down or s	stored
	in a computer so that you can check it later	•
6	- the place where experiments a	ire

TECHNOLOGY

Cabel the numbered elements in the picture.



COMPUTING

Complete the text with the words from the box.

virus software restarting error downloading

My con			ay. I think I got a
2	when I was 3		music files from
the Inte	ernet. First there w	as an "_	' message,
and the	n it stopped resp	onding. I	tried 5it
	idn't help. I lost a		
I've our	to buy muself hat	tor anti-v	rivie 7

What can you do with a file or document? Complete the table.

	create	
1		
		a document/ a file

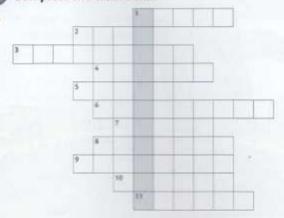
conducted

Label the numbered elements in the picture.



SPACE EXPLORATION

Complete the crossword.



- 1 Outer ___ is the area outside the Earth's atmosphere.
- 2 A space__ is the same as a spacecraft.
- 3 A person who travels into space
- 4 A long, thin spacecraft.
- 5 A star with a tail
- 6 Something that goes around a planet. It can be natural or man-made.
- 7 If a spacecraft is in ____, it's going around the Earth or another planet.
- 8 Astronauts can go and live on a space ___ for many months.
- 9 The whole space and everything in it.
- 10 A very big one hit the earth millions of years ago and killed the dinosaurs.
- 11 To ___ a spacecraft is to send it into space.

USEFUL PHRASES

- O Complete the sentences with appropriate words.
 - Copernicus ______ to the conclusion that the Earth rotates around the Sun.
 - 2 We know a lot about Charles Darwin's work, because he records of all his research.
 - 3 James Clerk Maxwell's most important _____ of research was electromagnetism.
 - 4 Albert Einstein ______ the Nobel Prize in physics in 1921.
 - 5 In 1922 British archaeologists an important discovery in Egypt: they found the tomb of the pharaoh Tutankhamun.
 - 6 Alexander Fleming found _____ that some types of mould kill bacteria.
 - 7 Richard Feynman specialised _____ quantum electrodynamics.
 - 8 Specialists are carrying _____ new research into ways of fighting malaria.

Complete the dialogues with appropriate words.

- 1 A: 'Hi! Did you have a good weekend?'
 - B:'It was OK. I spent five hours surfing the on Saturday.'
- 2 A: 'Excuse me. How do I switch _____ this machine?'
 - B:'Just _____ this button.'
 - A: 'I have, but nothing's happened. Maybe it's out of ______.'
 - B: Let me see... gosh, yes it is. Again!
 It breaks ______ every two or three days!'

examtask

- Read the text below. For questions 1-5 choose the correct answer A-D.
 - 1 The Egyptians
 - A made incorrect observations of frogs.
 - B could not think of a hypothesis.
 - C did not test their hypothesis experimentally.
 - D believed frogs were sacred.
 - 2 The heavier of the two balls dropped by Galileo
 - A looked just the same as the other one.
 - B fell faster than the other one.
 - C fell more slowly than the other one.
 - D fell at the same speed.
 - 3 It is important to repeat an experiment
 - A to see if the results are the same.
 - B to check if the results are statistically significant.
 - C so that others can check it.
 - D to record what you've done.
 - 4 It is important to record the procedure of an experiment
 - A so that others don't copy it.
 - B to check if you get the same results.
 - C so that others can repeat it.
 - D so you can check your conclusions.
 - 5 The main point of the last paragraph is that
 - A there are many branches of science.
 - B the scientific method is universally used.
 - C mud doesn't produce frogs.
 - D laboratories are essential to science.

- 3 According to the text, in what order does a scientist do the following? Number the steps 1-4.
 - Analyse the findings
 - Observe the world
 - Carry out an experiment
 - Formulate a hypothesis
- Use the highlighted words from the article to complete this text. Change the form when necessary.

Germ theory

Antoni van Leeuwenhoek, Dutch scientist and microscope-maker, ¹_______ the existence of bacteria and was the first person who ³______ microorganisms under a microscope. The French ³_____ and biologist Louis Pasteur carried out ⁴______ on fermentation. He believed that fermentation could happen only if a substance contained, or came into contact with, microorganisms, or germs. His findings ⁵_____ his hypothesis, and so provided the ⁴_____ which finally convinced European scientists that germ theory was true.



The Scientific Method

Every year in the spring, large numbers of frogs appear in the mud near the river Nile. They aren't there in dry weather, so in the past ancient Egyptians used to believe that the mud produced the frogs. The problem is they didn't test their belief scientifically.

The first step in the scientific method is to observe the world around you. For example, Newton noticed that an apple fell down, not up. The Egyptians did this part alright; they observed the frogs.

Step two is to ask yourself a question based on your observations. 'Why does the apple go down?' 'Where do the frogs come from?' And then think of a hypothesis: a possible answer. 'Objects are pulled to the ground by an invisible force.' 'Mud produces frogs'. The Egyptians did this too.

But it isn't enough just to think of an answer to a question and believe it's true.

You have to discover some evidence that confirms your hypothesis. So, the next step in the scientific method is to test your ideas with experiments and more observations. Galileo believed that two objects with different masses would fall at the same rate. So, the story goes, he carried out an experiment. He dropped a heavy ball and a light ball from the Leaning Tower of Pisa, and confirmed his belief. The Egyptians never did any experiments on their mudfrog hypothesis, so they never found out it was false.

If you do an experiment only once, you may make a mistake. So repeat your experiment to make sure you get the same results, and analyse your findings statistically to check they're significant. Then make any necessary changes to your hypothesis

and conduct more experiments. Carefully record everything you do so other scientists can duplicate your work and check your conclusions.

A hypothesis with lots of experimental evidence becomes a theory. A theory which has been confirmed many times is a scientific law. The great thing about hypotheses, theories and laws is that you can use them to make predictions. The law of gravity predicts that astronauts should float in space. And they do.

Chemists and physicists, geologists and biologists, researchers in every laboratory in every field of research use the scientific method. They don't accept untested observations. So they don't believe that mud produces frogs.

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MULTIPLE CHOICE 414

In a survey, people were asked about the best invention since 1800. Complete the results with what you think are the best inventions.

Bicycle Computer Internet

In a national survey in the UK these were the British people's

TOP INVENTIONS SINCE 1800

- 3 Electro-magnetic induction ring 8%
- 4 6%
- 5 Germ theory of infection 5%
- 6 Radio 5%
- 7 ______ -4%
- Read the results of the survey above on page 172. Do any of the answers surprise you?

examtask

- OD 2:36 You are going to hear five people talking about the most useful inventions. For questions 1-5 choose the correct answer A-C.
 - 1 What is the woman's favourite invention?



2 What is the man's favourite invention?





- 3 What is the girl's favourite invention?
 - a a new medicine
 - b an environmentally friendly product
 - c a means of transport
- 4 The two inventions the scientist thinks are most useful are both connected with
 - a research work
 - b genetics
 - c electricity
- 5 What is the man's favourite invention?
 - a genetically modified food
 - b the Internet
 - c he isn't sure
- In pairs, ask and answer the following questions.
 - Which speaker or speakers do you most agree/ disagree with? Why?
 - · What is your favourite invention? Why?
 - · What do you think is the worst invention? Why?

MULTIPLE CHOICE 4434

examworkout

- Complete the sentences in each pair with the correct words.
 - 1 discovered / were discovered → 188
 - a Wilhelm Röntgen ____ X-rays.
 - b X-rays in 1985.
 - 2 although / because >> 208
 - a I'd like to be a scientist ____ I'm interested in why things happen.
 - b I'd like to be a scientist, ____ I could probably make more money in finance.
 - 3 from / to >> ≥10
 - a The device is similar ___ a big telescope.
 - **b** The device is different the one we had before.

examtask

Read the text about the discovery of radioactivity. For gaps 1-9 choose the correct answer A-D.

THE DISCOVERY OF RADIOACTIVITY

In 1896 the	French	physicist	Antoine	Henri
Becquerel 1	inve	estigating u	ranium sa	ilts. He
accidentally le photographic p in photography	lates - gl	ass plates		

	ab d. marara mirro		
3	the plates wer	re wrapped in	n thick black
paper to	protect them fro		
	el found out that		
	they had been ly		n. He asked
	now this 4		
	iment and finally 5		
that the	uranium salt emitt		
6	X-rays, which c		
	aper. In this way	radioactivity	1 7
discovere	ed.		

The story shows some important qualities of a scientist's mind: the desire to understand why something happens the way it does, and the imagination which made Becquerel of a new, original explanation. In 1903, Henri Becquerel won the Nobel in Physics for his discovery.

1	A was	B had	C been	D had been
2	A discovered	B invented	C observed	D found
3	A Because	B When	C Although	D However
4	A been	B was	C had	D has
5	A came	B went	C made	D did
6	A than	B like	Cto	D with
7	A -	B was	C had	D been
8	A thought	B thinking	C to think	D think
9	A Award	B Prize	C Reward	D Price

TRUE/FALSE 4423

- Work in pairs. Can you answer any of the following questions?
 - · What is dry ice?
 - · How does lemon juice keep fruit fresh?
 - · Why does ocean water contain salt?
 - · How can a volcano erupt under water?
 - · Is the iron in cereals the same as in cars?
 - · What is the largest organ of the body?
 - Why does your mouth become dry when you're nervous?

examworkout

Read the text below without using a dictionary. Try to work out the meaning of the highlighted words, using clues 1-3.

ORY ICE' - WHAT IS IT?

Carbon dioxide (CO₂), the gas we exhale when we breathe, freezes at a very cold temperature – not at 0°C like water, but at 79.5°C below zero! When you heat it, it doesn't melt: it goes directly from a solid to a gas without becoming a liquid. And so it's called 'dry ice'.

- 1 What part of speech is the word exhale? What do we do with CO, as we breathe?
- 2 What part of speech is the word melt? Ordinary ice changes into a liquid when it is warmed. What is that change called?
- 3 What part of speech is the word solid? The text refers to the three states in which substances can occur: solid, liquid, gas. What are those?
- Match the words 1-3 to their definitions A-C.
 - 1 exhale A become liquid as a result of heating
 - B a substance that is not in a form of a liquid or a gas
 - 3 solid C let out the air when you breathe
- Read the extract from Exercise 2 again. Decide if the statements below are true (T) or false (F).
 - 1 A common gas can take the form of 'dry ice' at very low temperatures.
 - 2 Every kind of ice will melt if you warm it.

examtask

- S Read the text below. Decide if the statements 1-6 are true (T) or false (F).
 - 1 Vitamin C stops fruit becoming oxidized.
 - 2 Water remains in the ocean, but salt doesn't.
 - 3 Water can stop an underwater volcano burning.
 - 4 It is easy for our bodies to use the iron in breakfast cereals.
 - 5 There are about three million skin cells on your body.
 - 6 In danger, nervous reactions start in the body which can help you save yourself.
- Match the highlighted words from the text to their definitions a-f.
 - a become a part of something else
 - b the smallest living unit
 - c put out (the fire)
 - d change into a gas or steam
 - e combine with oxygen
 - f mix with a liquid and become a part of it

EVERYTHING YOU ALWAYS WANTED TO KNOW ABOUT... SCIENCE

Send in your questions to lizzie@scienceandtheworld.com

- O How does lemon juice help fruit stay fresh? If you cut up apples or bananas and leave them in the air, they become brown. Why? Because chemicals in the fruit react with oxygen and are oxidised. The Vitamin C in lemons, however, can make this reaction happen more slowly, preserving the taste and the colour of the fruit.
- As rivers flow over rocks and earth, small quantities of minerals enter the water and make it taste a little bit salty. This salty water then runs into the sea. There are two ways for water to escape from the sea: it can evaporate into the air or it can freeze into ice around the poles. However, the salt which is dissolved in the water can't escape, and so the seas just get saltier.
- Can volcanos erupt under water? Yes. Normally, fire needs oxygen in order to burn. If you tried to put a fire under water, it would receive no oxygen and could not burn. But underwater volcanoes don't need oxygen to burn because they're already so incredibly hot. The water can't extinguish the eruption because the heat immediately transforms it to steam.
- Is the iron found in cereals and machines the same? It is the same chemical and it comes from the same mineral. However, the iron which is added to cereals in the food-making process is in a form which our bodies can assimilate easily.

Use the words from Exercise 6 in the following sentences. Change the form when necessary.

- 1 Forest fires can be very difficult to
- 2 Some living organisms are so small that they consist of just one ______
- 3 On a hot day, rain water ______ very quickly.
- 4 Babies can only eat food which is easy for them to
- 5 Sugar _____ in water.
- 6 When metal rusts, it becomes
- 8 Read the following statements about science and technology. Tick () the ones you agree with. Compare your answers in pairs. Give reasons.

Everyone should learn something about science.

Science does not explain the most important things.

Thanks to science, we no longer believe a lot of nonsense.

People don't know how to use their own inventions well.

Science and technology have made people's lives better.

Science and technology have made people's lives worse.



An eruption of an underwater volume is seen in the Pacific Ocean near the uninhabited Minami Iwojima Island, about 1,435km (370 miles) seeth of Tokyo July 3, 2005.

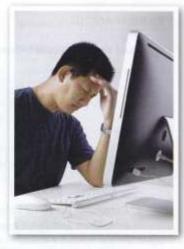
And the largest organ of the human body is...? It's not the heart and it's not the stomach. Believe it or not, it's the skin! On every square centimetre of a human body there are approximately three million skin cells. All together the weight of your skin probably comes to about three kilos.

Why does your mouth become dry when you're nervous?

When you're nervous, your body automatically prepares to fight or to run away. This is an automatic reaction to danger. The nerves in your body are activated only if they help you fight or escape. Because eating is not considered to be important at this time (you don't feel like eating if a lion is trying to eat you), nerve signals are sent to your mouth telling it to stop producing saliva and so your mouth becomes dry.

MULTIPLE CHOICE 4414

Describe the photo. Why do you think the man looks unhappy?



examtask

2 CD 2-37 You are going to hear a conversation about problems with a computer. For questions 1-6 choose the correct answer A-C.

1 Tony calls Michelle

- A to tell her about his project.
- B to talk about exams.
- C to invite her to dinner.

2 Tony has problems

- A printing his project.
- B emailing his project to his professor.
- C connecting to the Internet.

3 Which of these methods of solving the problem does Tony NOT try?

- A Restarting the computer.
- B Reinstalling the software.
- C Talking to his computer.

4 Tony calls Michelle again in order to

- A tell her he is ill.
- B ask her for advice about his computer problems.
- C cancel their date.

5 Tony

- A has downloaded a suspicious program.
- B has opened a strange email.
- C has not made a backup copy of his project.

6 We can guess that Michelle

- A is angry with Tony.
- B offers to come and help Tony.
- C decides to go out with someone else.

6 In pairs, ask and answer the following questions.

- Have you ever had a similar problem to Tony's?
 What happened? What did you do?
- How do you feel about computers? Do you think they are great/awful/problematic but necessary?
- What do you use computers for?
- What do you usually do when you have a computer problem?

DISCUSSION 4456

examworkout

• Read the exam task below and do exercises a-c.

Discuss the ways in which people use electronic devices in the following areas of human life. Say what possible problems might be connected with them.

- · education
- · entertainment
- · communication
- + work
- a Complete the table below with the ideas from the box. Then add three more ideas in each category.

online dictionaries game consoles mobile phones Internet communicators educational software data storage Internet banking MP3 players

Education	Communication
Entertainment	Work

- b Discuss the questions below with your partner and make notes which you could use while doing the exam task in Exercise 1.
 - What electronic devices do people use in these areas of life? Why?
 - What possible problems can be connected with using electronic devices?
- c Do the exam task with your partner.

examtask

Work in pairs and do the exam task below.

Discuss the ways in which the Internet can be used in the following areas of human life. Say what possible problems might be connected with it.

- education
- entertainment
- + communication
- · work
- Work in pairs and answer the follow-up questions below. One of you is a student and answers the questions, the other plays the role of the examiner.

Follow-up questions:

- What electronic devices do you find the most useful? Which of them do you use every day?
- Do you think people rely too much on technology nowadays?

INFORMAL LETTER 4449

examworkout

- Read the exam task in Exercise 2 and do preparation exercises a-c.
 - a Complete the following sentences with the words from the box.

ar	nazed/impressed	interested	interesting	liked
1	The most	part was	5	
2	The thing I	best w	as	
3	I was especially _	in.	**	
4	I was really	by		
PI	ut these jumbled	sentences in	order.	
1	you / here / wish	/ were		
2	you'd / love /sure / it / I'm			
3	not / a pity / it's	/ you're / me	/ here / witl	1

c Circle the openings and endings that are appropriate in a postcard to a friend.

4 it's / you / the kind of thing / love / just

Dear Sir or Madam	Yours sincer
Hi!	See you soon.
Love.	All the best.
Hi Steve	Dear Tone

examtask

Read the exam task below and write an email.

You are on a sightseeing trip in London. This is a part of an email you received from your English friend Peter.

... you visited the Science Museum in London, right? Did you like it? What exhibitions did you like best? I have always wanted to go there, there must be so many fascinating things to see and do! I think I could come to London at the weekend, would you like to go there with me one more time? Let me know because I need to book train tickets...

Write him an email answering all his questions.

SCIENCE assimilate /əˈsɪməleɪt/ cell /sel/ chemical element /kemikal elamant chemical formula / kemikal fo:mjələ/ chemical reaction / kemikal ri'æk[ən/ concentrated /konsantrestid/ contain /kan'tem/ development /dr'velapmant/ dissolve /dr'zolv/ earth /3:0/ evaporate /rvæpareit/ exhale /eks'herl/ extinguish /ik'stingwi freeze /friz/ gas /gaes/ germs /dʒs:mz/ gravity / grævəti/ immune system /rmjum sistim/ knowledge /'nolidz/ liquid /'likwid/ mass /mæs/ mathematical formula /mæθə'mætikəl 'fərmiələ/ melt /melt/ microbe /ˈmaɪkrəub/ mineral /ˈmɪnərəl/ molecule /'molikju:1/ multiply /ˈmʌltəplaɪ/ oxidise /ˈɒksədaɪz/ oxygen / oksidgan/ rate /reit/ salt /so:lt/ salty /'so:lti/ scientific /saiən'tifik/ scientific law /saran trink lat/ scientific method /samo tifik me0ad/ scientific theory /saian tifik (Pieri) scientifically /saian tifikli/ scientist / sarantist/ solid /splid/ statistical data /statustikal derta statistically /statistikli/ statistics /statistiks/ steam /stim/

AREAS OF SCIENCE AND SCIENTISTS

vaccine /'væksim/

vitamin /'vitaman/

archaeologist /o:ki pladust/ archaeology / ozki pladzi/ biologist /bar pladgast/ biology /bar'pladzi/ chemist /kemist/ chemistry /kemastri/ computer science /kam'pjutta saians/ economics /eka'nomiks/ economist /r'konəmist/ engineer /endʒəˈnɪə/ engineering /endʒəˈnɪənɪŋ/ geneticist /dʒəˈnetɪsɪst/ genetics /dʒəˈnetiks/ geologist /dʒiˈɒlədʒist/ geology /dʒiˈɒlədʒi/ linguist /ˈlɪŋgwɪst/ linguistics /lin/gwistiks/ math (AmE) /mæ0/ mathematician /mæθəmə'tı[ən/

mathematics /mæθəˈmætɪks/ maths /mæθs/ physicist /fizisist/ physics /fiziks/ political science /pəˈlɪtɪkəl political scientist /pəˈlɪtɪkəl psychologist /sar'kpladgist/ psychology /sar'kplad3i/ social science /'saufal 'saians/ social scientist /ˈsəuʃəl sarantist/ sociologist /səuʃiˈɒlədʒɪst/

SCIENTISTS AT WORK

sociology /sausi'pladgi/

analyse /ˈænəlaɪz/ analysis /ə'nælısıs/ conclusion /kənˈklu:ʒən/ confirm a hypothesis /kənˈfɜːm a har pp0asts/ confirm a theory /kən'fa:m a Brari/ connection /kəˈnekʃən/ determine /dr'ts:mm/ discover /dis'kavə/ discovery /dis'knvəri/ duplicate /'dju:plikeit/ evidence /'evidans/ experiment /ik'speramant/ findings / famdingz/ hypothesis /hai'pn0asis/ hypothesise /har'po0əsaiz/ invent /in vent/ invention /m'venjon/ inventor /m'venta/ investigate /in'vestigeit/ lab /læb/ laboratory /la'boratri/ link /link/ make predictions /merk pri'dik[əns/ observations /obzə'ver[əns/ observe /əbˈzɜːv/ predict /pri'dikt/ records / rekordz/ reject a hypothesis /ri'dzekt a har pobasis/ reject a theory /ri'dzekt reject an idea /n'dzekt ən ar dra/ research /riss:ts/ researcher /ri's3:t[a/ results /n'zalts/ study /stadi/

TECHNOLOGY

test /test/

survey /ssivei/

theory / Bipri/

aerial /earial/ battery /bætari/ button /batn/ cable /kerbal/ device /dr'vars/ digital /didgatl/ electricity /r.lek'trisəti/ electro-magnetic induction ring /dektrau mæg'netik in'dakfan electronic /elik'tronik/ estimate /estiment/ gadget / gzedzit/ genetically modified food dea netikli modafaid fuid/ GM food /dgi: am fuid/

headphones /'hedfaunz/ internal combustion engine in'ts:nl kəm'bʌstʃən 'endʒin/ lens /lenz/ machine /məˈʃi:n/ manual /ˈmænjuəl/ mobile phone /'məubail fəun/ motor /mauta/ nuclear power /'nju:klia 'paua/ plug /plag/ remote control /ri'mout kən'trəul/ socket /'spkit/ sound /saund/ switch off /swit[əf/ switch on /switf an/ technology /tek'nolod3i/ transform /træns'fo;m/ transistor /træn'zıstə/ VCR /vi: si: a:r/ video cassette recorder /'vidiəu kə'set rī'kə:də/

COMPUTING backup copy /bækap 'kopi/ CD /si: di:/ CD-ROM drive /si: di: rom draiv/ click /kltk/ computer program /kəm'pju:tə praugræm/ computer programmer /kəm'pju:tə 'prəugræmə/ crash /kræʃ/ cursor /'ks:sə/ data /'dertə/ database /ˈdeɪtəbeɪs/ delete /dɪˈliːt/ document /dokjəmənt/ double click /dabəl klik/ download a file /daon'loud a fail download a program /daon'laod a 'praugræm/ download data /daun'laud derta DVD drive /di: vi: di: drarv/ error /era/ external memory /tk'sta:nl memari file /fail/ flat screen monitor /flæt skri:n mpnita, floppy disk /'flopi disk/ folder /ˈfəʊldə/ hard disk /hɑːd disk/ icon / arkon/ information technology /mfəˈmeɪʃən tekˈnɒlədʒi/ IT /ar ti:/ keyboard /'ki:bo:d/ laser printer /'leizə 'printə/ lose a document /lu:z a 'dokjamant/

memory stick / memori stik/

open a document / popon

open a file / oppon o fail/

open an email /'aupan an

personal computer /'ps:sənəl

photocopier /fautau,kopia/

pendrive /pendraiv/

mouse /maus/

online /pn'lam/

a 'dokiamant/

i:meil/

PC /pi: si:/

kəm'pju:tə/

print /print/

process / prauses/ reboot /ri:'bu:t/ restart /ri:'sto:t/ save /serv/ scanner /'skænə/ screen /skri:n/ software /'spftweə/ speakers /spi:kəz/ the Internet /ðə 'intənet/ USB port /ju: es bi: po:t/ virus /'varərəs/ website //websait/ wireless /waralas/

SPACE EXPLORATION

astronaut / æstrəno:t/ comet /'komrt/ in orbit /m 'a:bit/ launch a rocket /lo:ntf ə 'rokit/ launch a spacecraft /lo:nt[ə 'speiskra:ft/ meteor /mi:tiə/ orbit /5:bit/ outer space / auto speis/ rocket / rokit/ satellite /'sætəlaɪt/ space /speis/ space station /speis 'ster[an/ spacecraft /'speiskro:ft/ spaceship /'speis[ip/ universe /'ju:nava:s/

USEFUL PHRASES area of research /earia av ri'sait[/ area of science / eəriə əv sarans. branch of science /bra:nt(av sarans/ break down /breik daun/ carry out an experiment /'kæri aut ən ik'sperəmənt/ carry out research /'kæri aut rr'sa:tl come to the conclusion that... /kʌm tə ðə kənˈkluːʒən ðæt/ conduct an experiment /kən'dakt ən ik'sperəmənt/ conduct research /kən'dakt ri'ssati/ do an experiment /du: ən ik'speramant/ do research /du: ri's3:tʃ/ field of research /fi:ld av ri'ss:t[/ field of science /fi:ld av 'sarans/ find out /faind aut/ keep a record of... /ki:p ə rekə:d əv/ make a discovery /meik ə dis'kavəri/ make a funny noise /merk ə 'fani nəiz/ out of order /aut av 'a:da/ patent an invention / pertnt an in'ven[ən/ press a button /pres a batn/ specialise in /speʃəlaɪz ɪn/ surf the Internet /sa:f ða intanet. undertake research /Anda tesk m'sait! win the Nobel Prize in... /win do noo'bel praiz in/