



## SCIENCE IS KNOWING

- What is science? What branches of science do you know?
- Do you study sciences at school? Which ones?



## VOCABULARY

1. Look at the first column with the list of sciences. Have you ever heard of any? Match the sciences to their definitions.

- |                               |   |
|-------------------------------|---|
| 1) <i>cybernetics</i>         | a) the study of the behaviour of substances below - 183°C                                       |
| 2) <i>cryogenics</i>          | b) the application of physics to stars and galaxies   |
| 3) <i>astrophysics</i>        | c) the study of the way information is processed by the brain or by machines                    |
| 4) <i>geopolitics</i>         | d) the artificial reproduction of genetically identical descendants of a simple plant or animal |
| 5) <i>genetic engineering</i> | e) the study of the peaceful applications of nuclear power                                      |
| 6) <i>nuclear engineering</i> | f) the study of the effect on a country's politics and population                               |

2. Choose the name of the science that best fits the description.

- 1) *Genetics/biology* may explain why Stella and her sister have the same disease.
- 2) *Ecology/geography* is the study of how living things relate to their environment.
- 3) In our *geography/chemistry* class, we are learning about rivers.
- 4) A team of scientists has been studying the *physics/chemistry* of the ozone layer.
- 5) It is a fact of *history/astronomy* that near the equator, the earth receives more energy from the sun.
- 6) The purpose of *architecture/archaeology* is to understand the past by studying material culture.
- 7) In *biology/genetics* class we had to dissect a frog.
- 8) Yesterday is *history/archaeology*. Tomorrow is a mystery. But today is a gift.
- 9) I studied electrical *engineering/physics*, but after university I didn't want to work as an engineer.
- 10) Einstein's theory marked a new epoch in *mathematics/physics*.
- 11) Quantum *astronomy/physics* is too difficult for a mere mortal to understand.

3. Fill in the blanks, using the words below to complete the definition of science and technology.

*knowledge / facts / phenomena / creation / hand-in-hand / practice / experimentation / powerful / tools / method*

Dictionaries give the definition of science as a system of getting 1) \_\_\_\_\_ attained through study or 2) \_\_\_\_\_, or knowledge covering general 3) \_\_\_\_\_, especially as obtained and tested through scientific 4) \_\_\_\_\_ concerned with the physical world. The knowledge generated by science is 5) \_\_\_\_\_ and reliable. This system uses research and 6) \_\_\_\_\_ to describe and explain natural 7) \_\_\_\_\_.

The term science also refers to the organized body of knowledge people have gained. While technology is the branch of knowledge that deals with the 8) \_\_\_\_\_ and use of technical means and their interrelation with life, society, and the environment. Technology is a human knowledge which involves 9) \_\_\_\_\_, materials, and systems. It is also an application of science used to solve problems. But technology and science are different subjects which work 10) \_\_\_\_\_ to accomplish specific tasks.