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) *cybernetics*
2) *cryogenics*
3) *astrophysics*
4) *geopolitics*
5) *genetic engineering*
6) *nuclear engineering*

a) the study of the behaviour of substances below – 183°c
b) the application of physics to stars and galaxies
c) the study of the way information is processed by the brain or by machines
d) the artificial reproduction of genetically identical descendants of a simple plant or animal
e) the study of the peaceful applications of nuclear power
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.