

Chapter 7 Biology in Our Daily Life

I. Biology in Our Life

Pronounce the words below!

- | | | |
|------------|-------------|----------------|
| a. Product | d. Medicine | g. Pollution |
| b. Shelter | e. Illness | h. Eradicate |
| c. Fuel | f. Evident | i. Prosthetics |

1. Read the text below!

Biology, the study of living things, is more than just a subject taken in school. On earth Biology affects the surface and spaces underground. Humans rely on living things and their products of food, shelter, personal care, their fuel and their medicine. Breakfast has the energy that keeps your body working for the whole day.

Biology included other fields of research including the environment, ecosystem, food quality, causes of illnesses, development of medicines, study of the human body and more. For example, the frog in its ecosystem.

Biology helps in shaping the professional career of every person. Be a doctor, chemist engineer, environmentalist, psychologist, teacher, or other professionals that are not implied to science. Studying the scientific concepts of life and other living organisms is very useful for everyone as Biology has a variety of different branches to choose and specialize in. Being a surgeon is a job that includes in biology.

Biology also provides answers to large scale concern that may affect anyone from different parts of the world. It can even over solution to environmental issues without sacrificing anything along the way. One of the most evident problems is the existence of pollution. This branch of knowledge can supply the solutions to eradicate such environmental issues that has become much worse than before.

As biology is the study of life, it is mainly used in hospitals, the study and research in biology has helped saving life. Biology has helped cure or find solutions to many cancers and diseases. And it has help people live better lives. After years of research many people have found the solution of different disabilities and people can now use prosthetics. Moreover with the help of biology many people can also have different organ transplants which help them live better and longer.

2. Answer the questions below!

- What is the things that living things provide for human?
- Mentions the other research of Biology field!
- Can Biology help you to find a job? Explain it!
- What is the solution of pollutions problem?
- Why is Biology mainly used in hospitals?

II. Listening

1. Listening to an audio about Biotechnology and Fill the gaps!

- Biotechnology means utilizing living organism or their product to revise or change _____ or the _____, or to run a process.
- These nine major areas of biotechnology are bioprocessing technology, monoclonal antibodies, cell culture, recombinant DNA technology, _____, protein engineering, biosensors, nanobiotechnology and microarrays.

- c. Monoclonal antibody technology uses the cells from the immune system to make _____.
- d. Recombinant DNA technology means recombining 2 pieces of DNA from 2 different _____. This is used to produce new medicines and vaccines, slow down the process of food spoilage, control viral diseases and hamper inflammation, just to name a few.
- e. Cloning technology allows for the generation of genetically identical molecules, plants, _____ or animals.
- f. Protein engineering is a DNA recombinant technique that is meant to improve existing _____ to create new proteins that do not exist in nature. These proteins may then be used in food processing, drug development and industrial manufacturing.

III. Speaking

Watch video about fermentation and discuss about it with your friend (What is fermentation, What are the product of fermentation, how to fermentation)!

IV. Writing

Choose one of nine major area of biotechnology and write explanation of it. Write in 50 or more words!