

How Does Technology Improve Our Lives?

Science Words

Say each word quietly to yourself. Then read the meaning.

Read the tip to help you remember.

bioengineering [by•oh•en•juh•NEER•ing] applying the engineering design process to living things

Alive and *bio* have the same long *i* vowel sound. *Bio* refers to things that are alive.

Bioengineering refers to engineering for living things—things that are alive.

biotechnology [by•oh•tek•NAHL•uh•jee] a product used to benefit organisms or their environment

Biotechnology has two parts: *bio* and *technology*. The meaning is the sum of the two parts—a type of technology that helps living things—things that are alive.

Science Concepts

Read the Ideas more than once. Do your best to remember them.

1. Technology meets human needs; pencils and light bulbs are technology as well as cell phones.
2. The way people meet their needs changes over time.
3. Technology has made it possible to communicate across the country in less time.
4. Technology can have positive effects or benefits and negative effects or risks.
5. A benefit of cars is personal freedom; a risk is their use of gasoline, a limited resource.
6. Engineers who work with living things are bioengineers.
7. A bioengineer may design a fish farm to raise large numbers of fish.
8. A bioengineer may design biotechnology to help find or treat disease in a patient.
9. Something that replaces a human body part, like an artificial leg, is an example of biotechnology.
10. Scanners that allow doctors to look inside the body are examples of biotechnology.