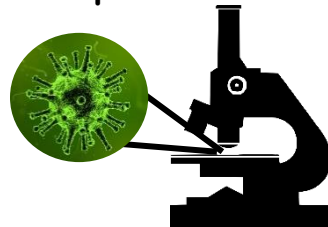


# Biology—Biotechnology

Biology is the study of the living things big and small. It helps us understand how we work and how we interact with the world around us.



As we learn more about the plant and animals around us—including the very small ones like germs, bacteria, and viruses—we can develop helpful relationships with them and our environment.



Scientists, engineers, and entrepreneurs working in the field of biology work together to find new ways to using the things they are inventing. On the next page we describe three areas people are working on in the field of biology.



## Germ killing overhead lights

Normally we think of lamps and lightbulbs as just being something we use so we can see in the dark. Some types of light can kill germs. This means that some lamps can both provide light and cleaning power. Do you know some examples of different types of light?



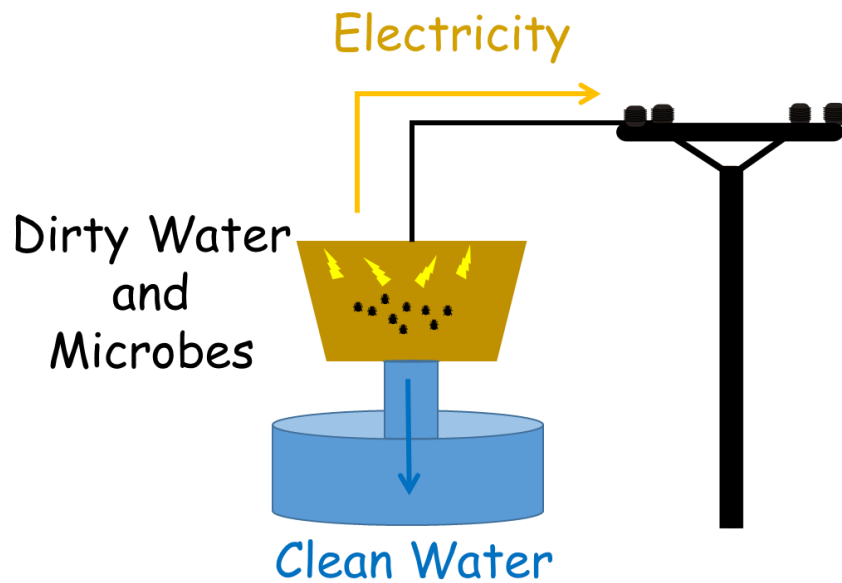
## New medicines

Biology and medicine work together with engineering, chemistry, and physics to make inventions to help with your health. Some examples are skin you make in the lab and new medicines to treat diseases.



## Bacteria that can make or store energy

There are some bacteria that can eat garbage and turn it into energy for our lights and phones. There are also bacteria that can clean dirty water and make it okay to drink!



## Discussion Prompts

What field would you study and why if you...

a. wanted to clean up water in a lake?

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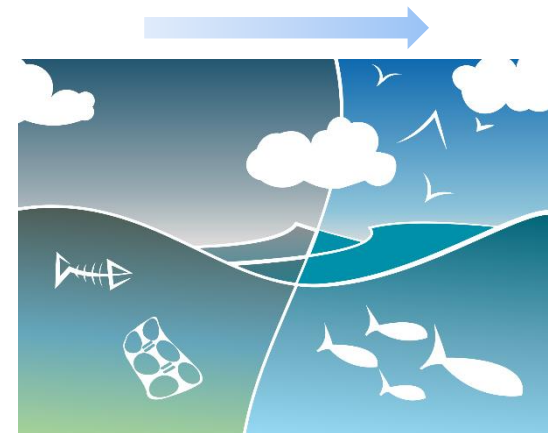
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b. were interested in the human body?

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c. wanted to work with both biology and energy?

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