

## ② Bacteria in Your Life

### What You'll Learn:

Identify some ways bacteria are helpful.

Determine the importance of nitrogen-fixing bacteria.

Explain how some bacteria can cause human disease.

## Beneficial Bacteria

\*The benefits of bacteria far outweigh the harmful effects.



## Bacteria That Help You

\*Bacteria in your intestine help break down nutrients and produce vitamin K.

\*They produce antibiotics that kill other bacteria.

## Bacteria and the Environment

\*Consumer bacteria maintain nature's balance and recycle nutrients.

\*Nitrogen fixing bacteria change nitrogen so that it is usable by other organisms



## Bioremediation

\*Using bacteria to break down pollutants into harmless compounds.



## Bacteria and Food

\*Many foods are created using bacteria.



## Bacteria in Industry



\*Bacteria grown in bioreactors are used as medicine, cleansers, and adhesives.



\*Bacterial waste product methane is used as fuel for heating, cooking, and industry.



## Harmful Bacteria

\*Pathogens cause disease.



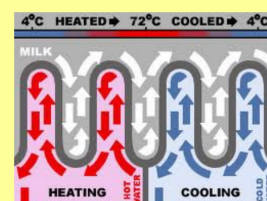
## How Pathogens Make You Sick

\*They enter the body through cuts in your skin, through the mouth, or inhaled.

\*Toxins are chemicals that cause illness.

## Pasteurization

\*It is a process of heating food to kill the bacteria, but doesn't change the taste of the food.



## Treating Bacterial Diseases

\*Antibiotics and vaccines are used to treat bacteria.

