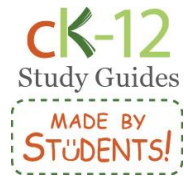


Safety of Water



Water Treatment

- Unsafe water contains many **pathogens**, which causes a variety of diseases.
- Natural sources of water are treated with disinfectants such as chlorine, to kill bacteria and other microscopic pathogens.
- In most communities in the United States, water undergoes a lengthy process before ending up in drinking fountains.

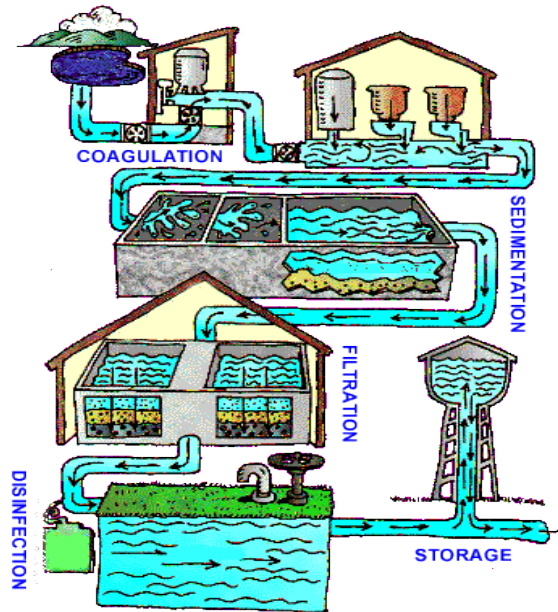
Study Tip

Nearly one-fifth of the world population has no access to clean water.

Water Treatment Process

The water treatment process involves the following five steps:

1. Coagulation
2. Sedimentation
3. Filtration
4. Disinfection
5. Storage



Effects of Water Pollution

- Drinking unsafe water causes approximately 88% of all diseases.
- Throughout the world, more than 14,000 people die every day from waterborne diseases such as cholera and Guinea Worm disease.

Concept Check

- What do waterborne diseases from unsafe drinking water lead to?
- How is water treated in many communities across the United States?