

WELCOME TO THE ONLINE CLASS

SESSION NO.: 3

CLASS: 5

SUBJECT: SCIENCE

CHAPTER NUMBER: 6

CHAPTER NAME: SOIL EROSION AND CONSERVATION

SUB TOPIC: AGENTS OF SOIL EROSION: HUMAN BEINGS

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

To enable the learner to:

- **understand how humans cause soil erosion.**
- **Realize the harmful effects of soil erosion.**

WARM UP

- **How the land loses its fertility?**
- **What are the agents of soil erosion?**
- **The Yellow River in China is also known as
_____.**
- **Why are plants unable to survive in deserts?**

SOIL EROSION

- The process of removal of top layer of soil by the action of wind or running water is called soil erosion.
- Wind and running water are the agents of soil erosion.



AGENTS/ FACTORS THAT CAUSE SOIL EROSION

- Running water
- Moving air or wind
- Human activities like cutting down of trees, overgrazing, etc.



HUMAN ACTIVITIES CAUSES SOIL EROSION

- Deforestation
- Ploughing on hill slopes
- Overgrazing



EFFECTS OF SOIL EROSION

- Loss of topsoil
- Loss of soil fertility
- Reduce crop yield
- Water pollution



SUMMARY

- **The process of removal of top layer of soil by the action of wind or running water is called soil erosion.**
- **Erosion is caused by natural processes as well as by human activities.**
- **Loss of topsoil, loss of soil fertility, reduce crop yield and water pollution are some of the harmful effects of soil erosion.**

READY FOR A
QUIZ ?

1. Cutting down of trees in large number is called _____.

Ans: Deforestation

2. _____ of trees and plants hold the soil together.

Ans: Roots

3. Ploughing of hill slopes leads to

_____.

Ans: Soil erosion

HOMEWORK

- **Do the oral Q & A of page no. 53 in your notebook.**

E. Answer these questions.

3. How does water act as an agent of soil erosion?

Ans: Water acts as an agent of soil erosion as they carry away the top layer of soil causing soil erosion. In heavy rain or floods soil gets carried because of water coming with high speed and heavy force. Top layer of soil gets carried away which makes soil infertile and causes soil erosion.

4. Why do some rivers change their course?

Ans: When a river comes down from the hill it carries a lot of mud with it. When it reaches the plains, the flow of the river slows down and leaves part of the soil on its way. Over a period of time soil accumulates and makes the river change its course.

E. Answer these questions.

5. How is man responsible for soil erosion?

Ans: Man is responsible for soil erosion in the following ways:

Deforestation or falling of trees

Ploughing of hill slopes

Overgrazing by cattle

E. Answer these questions.

6. List three ways by which soil can be conserved.

Ans: Ways by which soil can be conserved:

Afforestation: Planting trees is known as afforestation. It is very effective in preventing soil erosion.

Soil Cover: The soil can be easily eroded by wind and water. To prevent this, farmers either grow grass or cover the land with dried vegetation.

Shelterbelts: Growing fences or trees along the edge of farmland as wind breakers, reduce soil erosion by reducing the speed of wind.

Terrace Farming: Along the slopes of the hills, farming is done by cutting steps in the slopes. This reduces the speed of water as it flows down, thus reducing soil erosion.

Building Embankments: Rivers constantly erode the soil on their banks. Strong embankments of rocks and soil built along the banks prevent this.

LEARNING OUTCOME

The learner will be able to:

- **understand how humans cause soil erosion.**
- **Realize the harmful effects of soil erosion.**

THANKING YOU
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