Growth of Soil Fertility:

Soil Fertility:

Soil fertility is the element of overall soil productivity that deals with its available nutrient status, and its ability to provide nutrients for plant growth. Plants need nutrients to grow and thrive.

In short, soil fertility is the capacity of soil to grow crops.

Fertilizer:

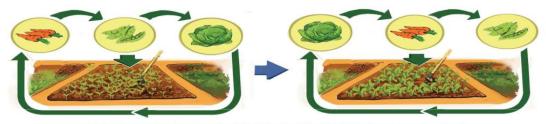
Fertilizer is a chemical or natural substance added to soil or land to increase its fertility. There are two type of fertilizer.

- 1. Organic fertilizer: Example: cow dung and compost.
- 2. Inorganic fertilizer: Example: urea and TSP



The ways to maintain soil fertility:

- 1. Using fertilizer:fertilizer can help soil to restore lost nutrient and enhance the plant growth.
- 2. Rotating crops: crop rotation helps to maintain soil fertility. Example: beans help put nutrients back into soil.



Lost nutrients in soil can be replaced by rotating crops.

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Pollution:

Pollution is the introduction of contaminants into the natural environment that cause adverse change.

Soil pollution:

The contamination of soil with harmful substance is called soil pollution

Causes of soil pollution:

- 1. Littering garbage: throwing garbage anywhere or littering garbage such as domestic waste or polythene on the land.
- 2. Using pesticide: the use of pesticide or herbicide for agricultural activities increasing soil pollution.
- 3. Unorganized factories waste management: leakage of oil or harmful materials from factories to the land.



Exercise

| 1. Fill in the bla | anks with appropri | iate words: | | |
|---|--|--------------------------|------------------------|--|
| a) Lost nutri | ents in soil can be re | eplaced byc | erops. | |
| b) Urea is ar | n fertilizer. | | | |
| c) The capac | city of soil to grow o | crops is called | | |
| d) Compost | is an fertiliz | zer | | |
| e) | _ happens when peo | ople introduce harmful | materials into soil. | |
| 2. Choose the c | correct answer: | | | |
| a) Which of t | the following is natu | ıral fertilizer? | | |
| i. Urea | ı | iii | . Potassium | |
| ii. Halo | ogen | iv | . Cow dung | |
| b) What is the | e topmost layer of th | ne Earth? | | |
| i.Air | | iii. | iii.Water | |
| ii.Soil | | iv. | iv.Plants | |
| c) Which one ca | an increase the fertili | ity of the soil? | | |
| i.Topsoil | | iii.i | iii.Starch | |
| ii.Air | | iv. | iv.Fertilize | |
| d) What is the | cause of soil pollution | on? | | |
| i. Littering trash | | ii. Picking up trash | | |
| ii. Using compost | | iii. Recycling | | |
| e) What is a go | ood idea on how to n | naintain soil fertility? | | |
| e) What is a good idea on how to mai. Planting the same crop | | | · | |
| iii. Watering the crops | | | iv. Spraying pesticide | |
| | 8 | | <i>8</i> 1 | |
| | | ving questions in shor | t: | |
| a) Why d | lo plants need nutrie | ents? | | |
| b) What i | is soil fertility? | | | |
| c) How n | How many types of fertilizer are there? Give examples. | | | |
| d) What i | is soil pollution? | | | |
| 4. Write the a | answer of the follov | wing broad questions: | | |
| a) What a | What are the ways to maintain soil fertility? | | | |
| b) What | What are the causes of soil pollution? | | | |

Answer Sheet

1.

- a) Rotating
- b) Inorganic
- c) soil fertility
- d) Organic
- e) soil pollution

2.

- a) iv. Cow dung
- b) ii. Soil
- c) iv. Fertilizer
- d) i. Littering trash
- e) ii. Rotating the crop

3.

- a) Plants need nutrients to grow and thrive.
- b) Soil fertility is the capacity of soil to grow crops.
- c) There are two type of fertilizer.
 - 1. Organic fertilizer: Example: cow dung and compost.
 - 2. Inorganic fertilizer: Example: urea and TSP
- d) The contamination of soil with harmful substance is called soil pollution.

4.

a) The ways to maintain soil fertility:

- 1. Using fertilizer:fertilizer can help soil to restore lost nutrient and enhance the plant growth.
- 2. Rotating crops: crop rotation helpsto maintain soil fertility. Example: beans help put nutrients back into soil.

b) Causes of soil pollution:

- 1. Littering garbage: throwing garbage anywhere or littering garbage such as domestic waste or polythene on the land.
- 2. Using pesticide: the use of pesticide or herbicide for agricultural activities increasing soil pollution.
- 3. Unorganized factories waste management: leakage of oil or harmful materials from factories to the land.

**** Share to your afternoon teacher what you have learned from today's lecture.