

ADDING MANURE AND FERTILIZERS

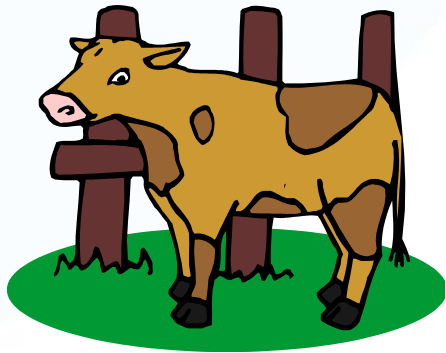


MANURE

- Nutrients are added to soil for healthy growth of plants.
- Continuous growing of crops makes the soil poor in nutrients.
- **Manures** are organic substances obtained from decomposition of plant and animal wastes.
- **Manuring** is done to replenish soil with nutrients.



MANURING PROCESS



ORGANIC MANURE

Organic Compost



**Non-recyclable
Paper**



Yard Waste



Food Waste



TRACTOR MANURING THE FIELD

- ☐ Tractors are used for manuring fields.



ADVANTAGES OF MANURING

- Improves water retaining capacity of the soil.
- Makes the soil porous and exchange of gases becomes easy.
- Increases the number of friendly microbes .
- Improves the texture of the soil.
- Replenishes the soil with necessary nutrients.

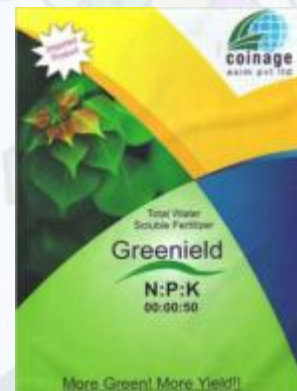
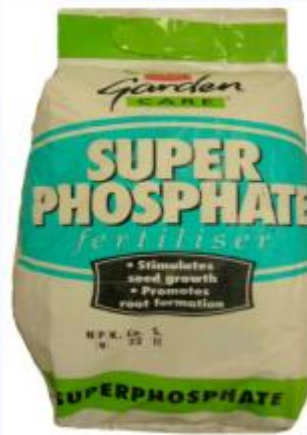


FERTILIZERS

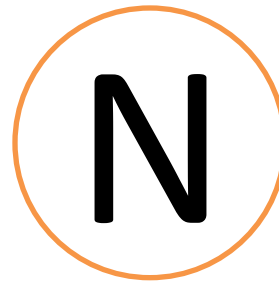
- **Chemical substances** rich in nutrients.
- Produced in factories.



E.g.:-



Green
Foliage



NITROGEN



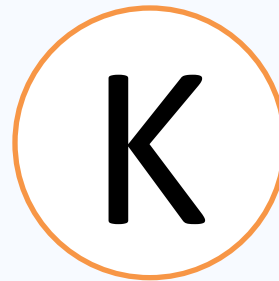
Strong
Roots



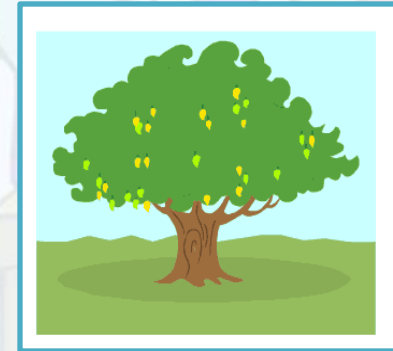
PHOSPHORUS



Healthy
Growth



POTASSIUM



ADVANTAGES OF FERTILIZERS

- Help farmers to get better yield of crops.

DISADVANTAGES OF FERTILIZERS

1. Source of water pollution.
2. Made the soil less fertile.
3. Artificial fertilizers often cause diseases.



DIFFERENCES

FERTILIZER	MANURE
Inorganic salt	Natural substance
Chemical substance	Organic substance
Prepared in factories	Prepared in fields
Does not humidify the soil	Provides humus to the soil
Rich in plant nutrients	Less rich in plant nutrients



CONCLUSION

- **Manure:** organic substances obtained from the decomposition of plant and animal wastes.
- Adding manure to the field shall replenish the soil with nutrients.
- Manuring results in stronger plants and better crops.
- Fertilizers are chemical substances.

