

The Primary Stage of Grades (4-5)  
School Year 2022 - 2023

Name: Key

Unit (11): Types of Soil  
Worksheet (1)  
Grade 5 CP (All sections)

Date: / /

Objective:

- Learn that soil can be classified based on their clay, sand and organic content.
1. The top layer of the soil contains a lot of organic matter. What is this organic matter called? Circle the correct answer.

humus

loam

silt

2. We can classify soil **according to the amount of sand, clay and organic material it contains**.

Complete the sentences. Choose from the following words.

clay	fine	less	humus	loose
more	organic	sand	silt	sticky

- Sandy soil is made up mostly of **sand**. It is very **loose**.
- Clay soil contains a large amount of very **fine** particles. It is **sticky**.
- Silty soil contains small rock particles, minerals and **humus**.
- Loam soil is a mix of **silt, clay** and sand. It has **more** humus than silty soil.

3. Loam soil is suitable for growing crops. Why?

Tick (✓) the **two** correct answers.

- It can be found near rivers.
- ✓ **It contains the nutrients needed by plants to grow.**
- ✓ **It holds water but also allows excess water to drain away.**
- It remains wet during wet seasons.

4. Various conditions can change the composition of soil.

How does dead plant and animal matter change the composition of soil?  
Circle the correct answer.

**it makes the soil drier**

**it makes the soil harder**

**it makes the soil more fertile**

5. A farmer grows corn plants in his field.

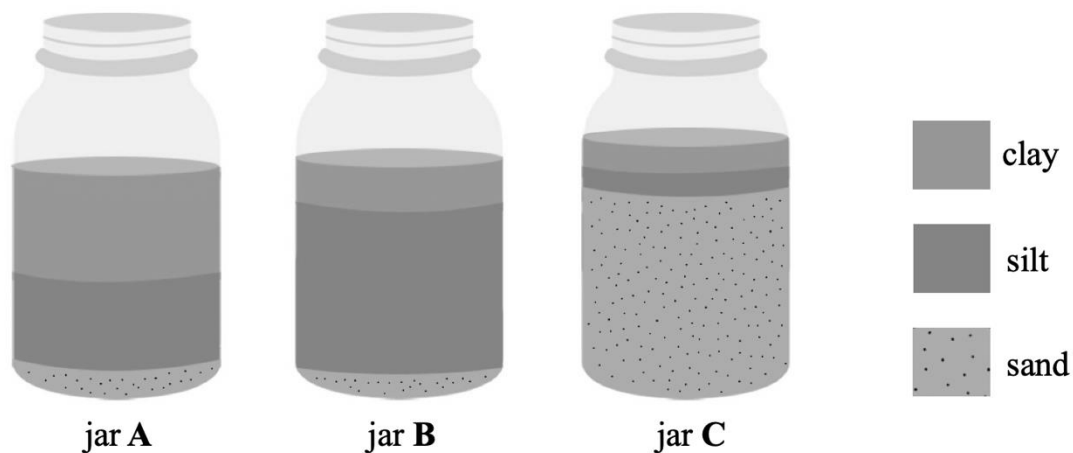
After he harvests the corn, he replaces the corn plants with soya bean plants.

How does rotating crops help maintain the composition of the soil?

Tick (✓) the correct answer.

- It adds fertilizer to the soil.
- It removes the top layer of the soil.
- ✓ **It returns the nutrients to the soil.**

6. Sanad collects soil samples from three different places. He adds each soil sample into a jar and fills the jar with water. He shakes the jars and leaves them aside for one day. The diagrams show the contents of the jars after one day.



(a) Which jar contains soil that cannot hold water? How do you know?

- Jar C. The soil contains large amount of sand, and sand particles do not hold water.

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(b) Identify the type of soil in each jar. Use the following words.

clay soil	sandy soil	silty soil
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Jar A: Clay Soil \_\_\_\_\_

Jar B: Silty Soil \_\_\_\_\_

Jar C: Sandy soil \_\_\_\_\_

7. Cala grows two plants in different types of soil. She measures the height of the plants every two days. The table shows her results.

Day	Height of plant in soil A (cm)	Height of plant in soil B (cm)
0	2.0	2.0
2	2.4	2.5
4	3.8	4.0
6	4.3	6.9
8	5.6	9.2
10	7.2	12.0

(a) Which of these should Cala do to make her **investigation a fair test**? Circle the correct answer.

use different kinds of plants

use the same amount of soil

use the same type of soil

(b) Identify the **dependent variable** in this investigation.

Height of the plant.

(c) Identify the **independent variable** in this investigation.

Type of the soil.

(d) What can Cala **conclude** from her results?

Different types of soil can affect the growth of plants. In this investigation soil B is better than soil A for growing plants.