PENANG SANGAM HIGH SCHOOL P.O.BOX 44, RAKIRAKI LESSON NOTES

School: Penang Sangam High School

Subject: Agricultural Science

Year/Level: 9 Week 13

Strand	AS 9.3 AGRONOMY
Sub Strand	AS 9.3.1 SOILS
Content Learning Outcome	Recognise and evaluate soil by identifying and relating the
	four components of soil to soil use, husbandry practices and
	soil enhancement.

LESSON ONE: SOIL

Lesson outcome: At the end of this lesson the student will describe soil.

₩ Weathering- is the breakdown of rocks to form soil.

NOTES

- ✓ The surface of the earth, which is the crust, is covered in a soft layer of material called soil.
- ✓ Soil is the medium of plant growth and development. It also supports all life on planet earth.
- ✓ There are many types of soil in the world but the two main types are sand and clay.
- ✓ When sand and clay are combined in equal proportions, loam is formed.
- ✓ However, if individual sand grains are coated in clay, then silt is formed.

Student Activity

1.	Define the term soil.
2.	Explain why soil is important.
3.	How is loam soil formed?
4.	Why is soil studied in Agricultural Science?

LESSON TWO: ROCKS

Lesson outcome: At the end of this lesson the student will: i) identify the 3 main types of rocks ii) explain how each type of rock is formed.

NOTES

Rocks result when tiny grains of different minerals react and are compressed together. Rocks are a valuable which are continuously being made and weathered.

There are three types of rocks.

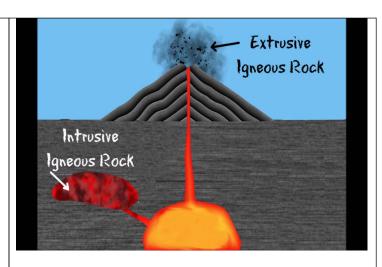
1. Igneous rocks – forms when magma cools down after the volcanic eruption.

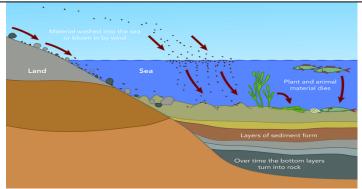
Two types of igneous rocks.

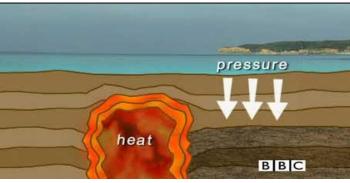
- a) Extrusive rocks forms when magma cools down on the surface after volcanic eruption.
- b) Intrusive rocks forms when lava cools down inside the surface after volcanic eruption.
- **2. Sedimentary rocks** form when eroded particles of rock, wash down to the sea and settle out in layers.

3. Metamorphic rocks – are formed due to high heat and pressure.

Therefore it is formed when chemical changes occur in igneous and sedimentary rocks.







1.	How are rocks formed?
2.	Differentiate between intrusive rocks and extrusive rocks.
3.	Which rock is formed due to volcanic eruption?
4.	Differentiate between sedimentary rocks and metamorphic rocks.
5.	Which rock is formed due to high heat and pressure?

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