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WORKSHEET 10

SCHOOL: BA SANGAM COLLEGE

YEAR: 10

Name: _____

SUBJECT: SOCIAL SCIENCE

Strand	3. Place and Environment
Sub Strand	3.1: Geography of Fiji
Content Learning Outcome	3.1.1: Investigate the main features of physical geography and illustrate how they determine land use to maximize productivity

LESSON NOTES –PHYSICAL GEOGRAPHY

TYPES OF RAINFALL

There are 3 types of rainfall (Precipitation):

1. Relief or Orographic rainfall:

As the South East Trade Winds blow across the ocean, they are warmed and they pick up moisture. When they reach land, they are forced upwards over the mountains.

As it rises it cools, forms clouds and begins to rains on the windward side. The dry winds flow to the leeward side.



2. Convectional Rainfall

The earth's hot surface heats the air above it. The heated air becomes lighter, as it expands and begins to rise. The rising air expands and cools. Condensation takes place and clouds form. Rain begins to fall.

3. Cyclonic/Frontal Rainfall - Occurs when warm moist air comes into contact with cool air during a passage of depression. This is most common during tropical cyclones and hurricanes.

SOIL

Soil is the natural material for plant growth. Soil makes up the top layer of the earth's crust.

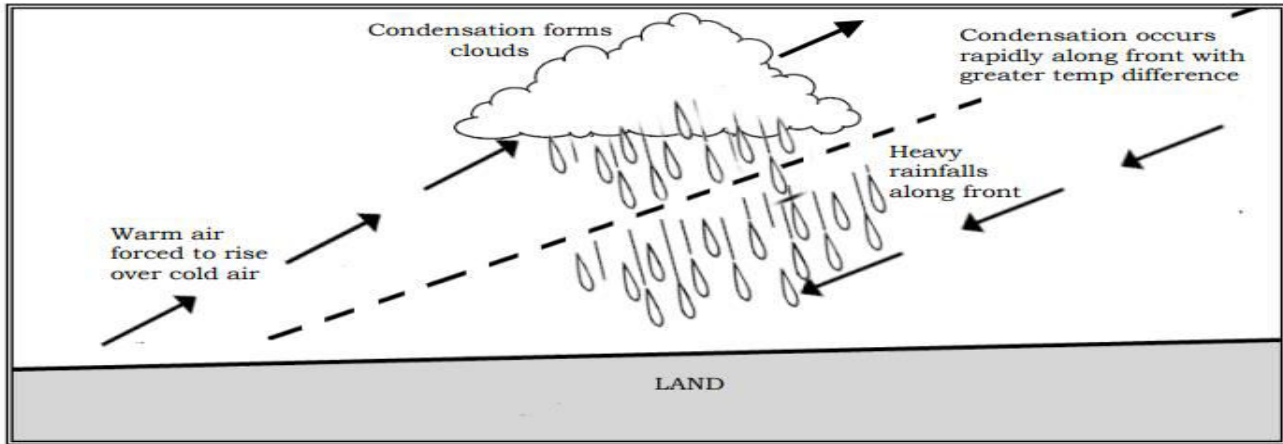
FACTORS AFFECTING SOIL FORMATION

- Climate - The direct influence of rainfall and temperature influence the type of soil the area will have. Rainfall is also responsible for the washing out (leaching) of main mineral elements and making soil thin.
- Relief - The shape of the land (its topography) and in particular its slope or steepness can have a major influence. Steeper slopes have thin deposits of soil because they are subject to erosion.

iii. Biological Factors - Plants, climatic elements, organisms all contribute to the type of soil present there. Plants provide shade as well as plant litter which will greatly contribute to fertile soil.

ACTIVITY

Use the diagram to answer multiple choices 1 and 2.



1. Which of the following types of rainfall is illustrated in the diagram above?
 A. Relief B. Cyclonic C. Orographic D. Convectional
2. The type of rainfall shown in the diagram above is caused by the :
 A. fronts. B. mountain. C. air masses. D. temperature.
3. Rainfall is a form of
 A. evaporation. B. precipitation. C. condensation. D. transpiration
4. Soil is an example of a
 A. useful input. B. natural input. C. human input. D. harmful input. (4 marks)
5. Discuss two ways a farmer could do to improve soil fertility.

(2 marks)

6. Discuss the importance of plants and animals to the soil formation.

(2 marks)

7. Identify the type of rainfall for each scenario:

- a. rain occurs on a hot sunny day due to excess evapotranspiration. _____.
 - b. the prevailing winds encounter an mountain barrier _____.
- (2 marks)

THE END