

CLASS - VIII

SUBJECT - SOCIAL SCIENCE

CHAPTER - 2 GEOGRAPHY  
LAND, SOIL, WATER, NATURAL VEGETATION  
AND WILDLIFE RESOURCES

## ACTIVITY - SOIL PROFILE AND FACTORS OF SOIL FORMATION

OBJECTIVES - (i) Students will learn about the different layers of soil called soil profile

(ii) Students will also learn about the several factors that help in soil formation.

EXPLANATION - (A) SOIL PROFILE - Soil profile refers to different layers of soil

(i) Top soil - The uppermost layer rich in humus and supports all types of vegetation.

(ii) Sub soil - It lies below the top soil, consists of sand, silt and clay and holds moisture.

(iii) Weathered rock material - It lies below the subsoil.

(iv) Parent rock - Bed rock or parent rocks form the bottom most layer of the soil profile.

## (B) FACTORS OF SOIL FORMATION

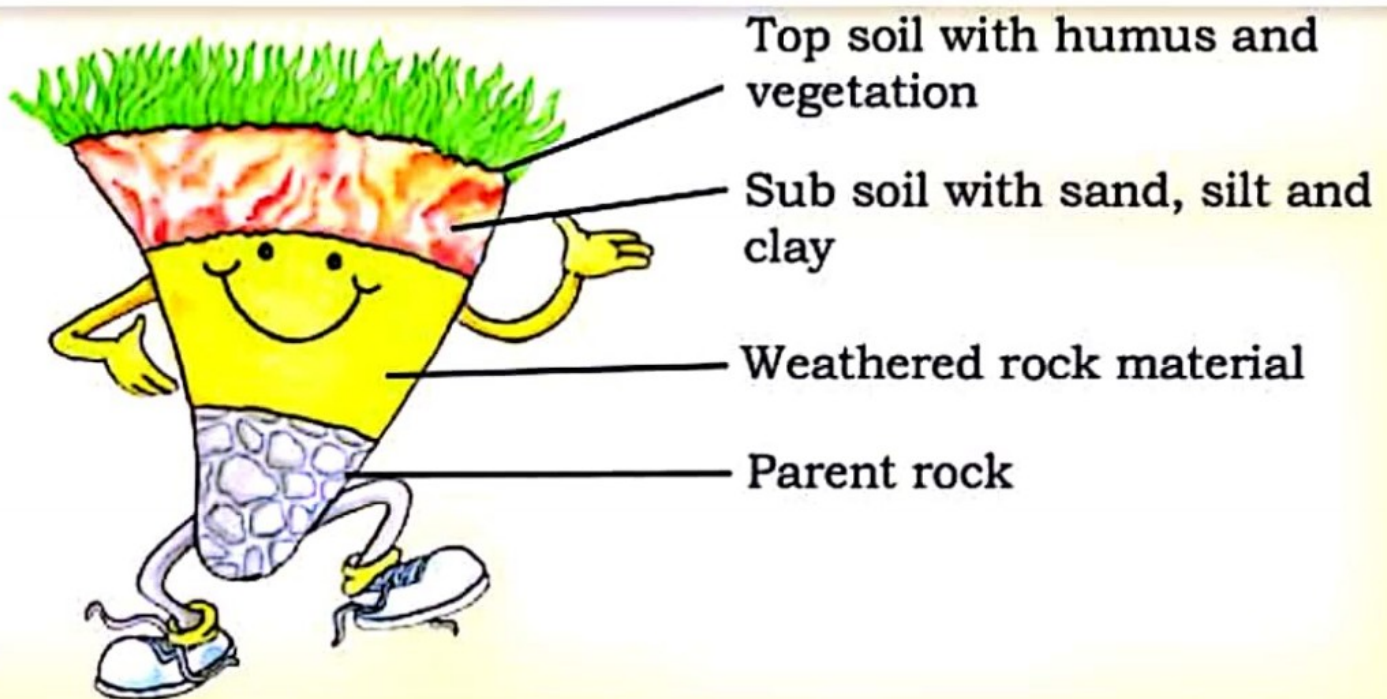
Soil formation depends upon several factors like → the nature of Parent Rock

→ The Topography or Relief

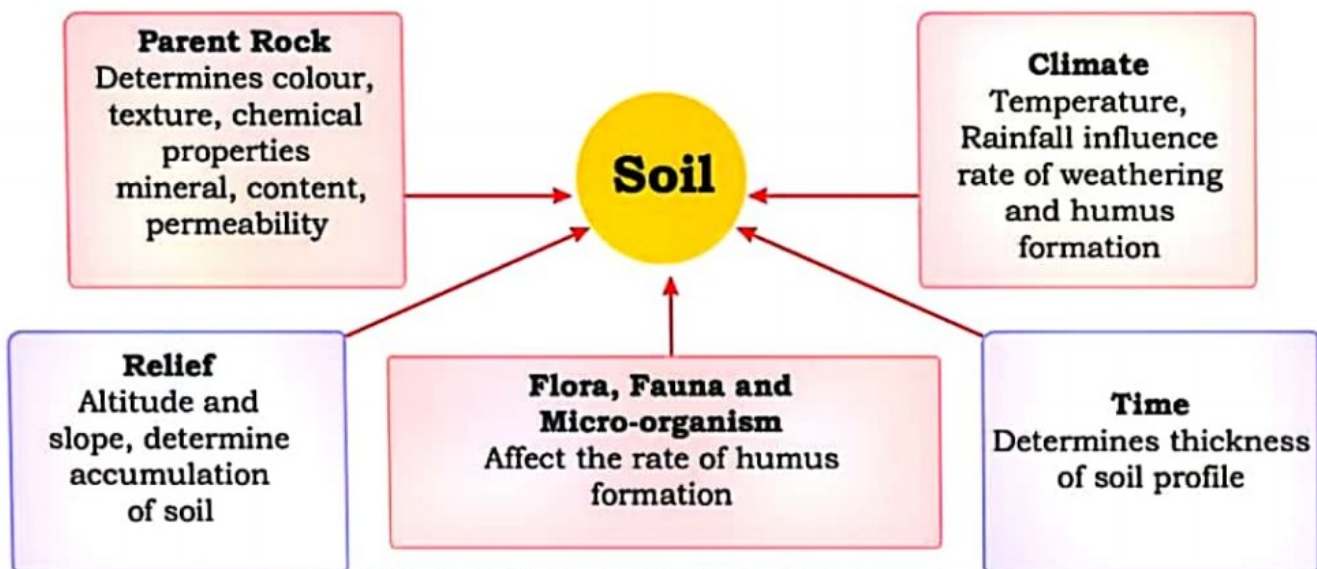
→ The Climate

→ The types of vegetation and animals

→ Time



**Fig. 2.3: Soil Profile**



*Fig. 2.4: Factors affecting soil formation*

## ★ LEARNING OUTCOMES

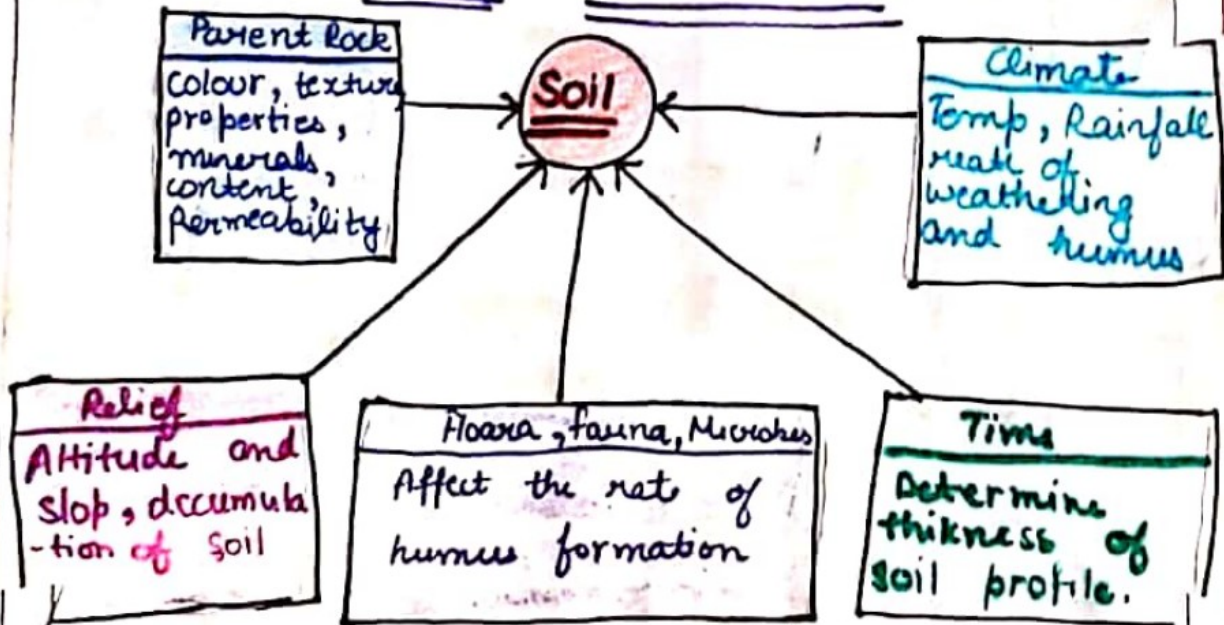
- Students discover what a soil profile looks like.
- Students able to investigate the composition of soil.
- Students explore the five soil forming factors.

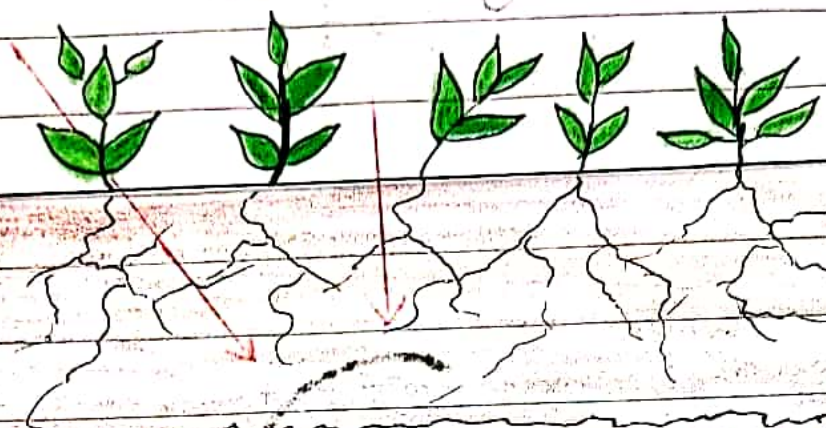
# SOIL PROFILE



Top soil with humus and vegetation  
Sub soil with sand, silt and clay  
Weathered rock material  
Parent rock

# SOIL FORMATION



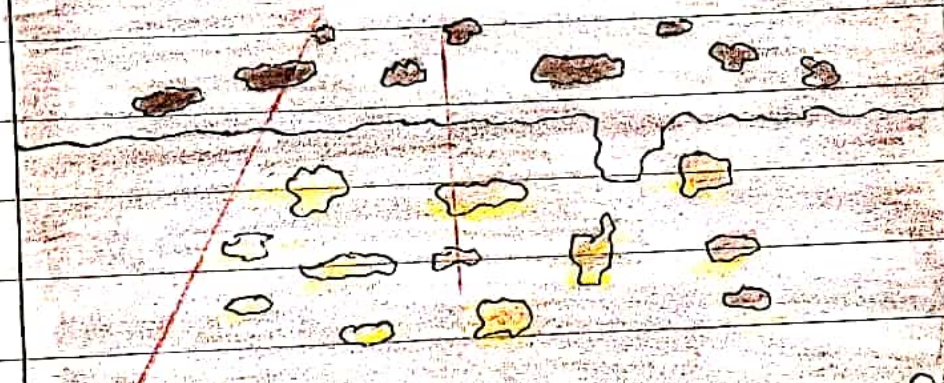


Top soil with humus and vegetation

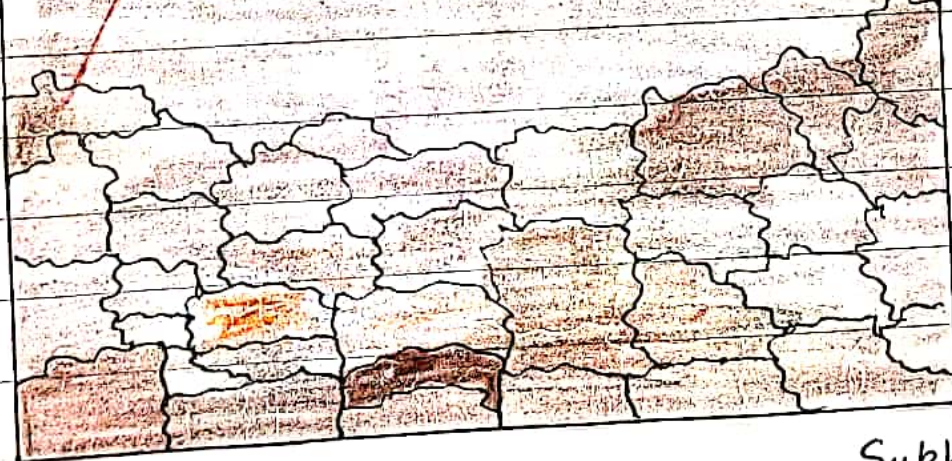
Sub soil with sand, silt and clay



Weathered Rock material



Parent Rock



Sukhleen Kaur



### Parent Rock

Determines colour, texture, chemical properties, mineral content, permeability

### Climate

Temperature, Rainfall influence rate of weathering and humus formation

### Relief

Altitude and slope, determine accumulation of soil

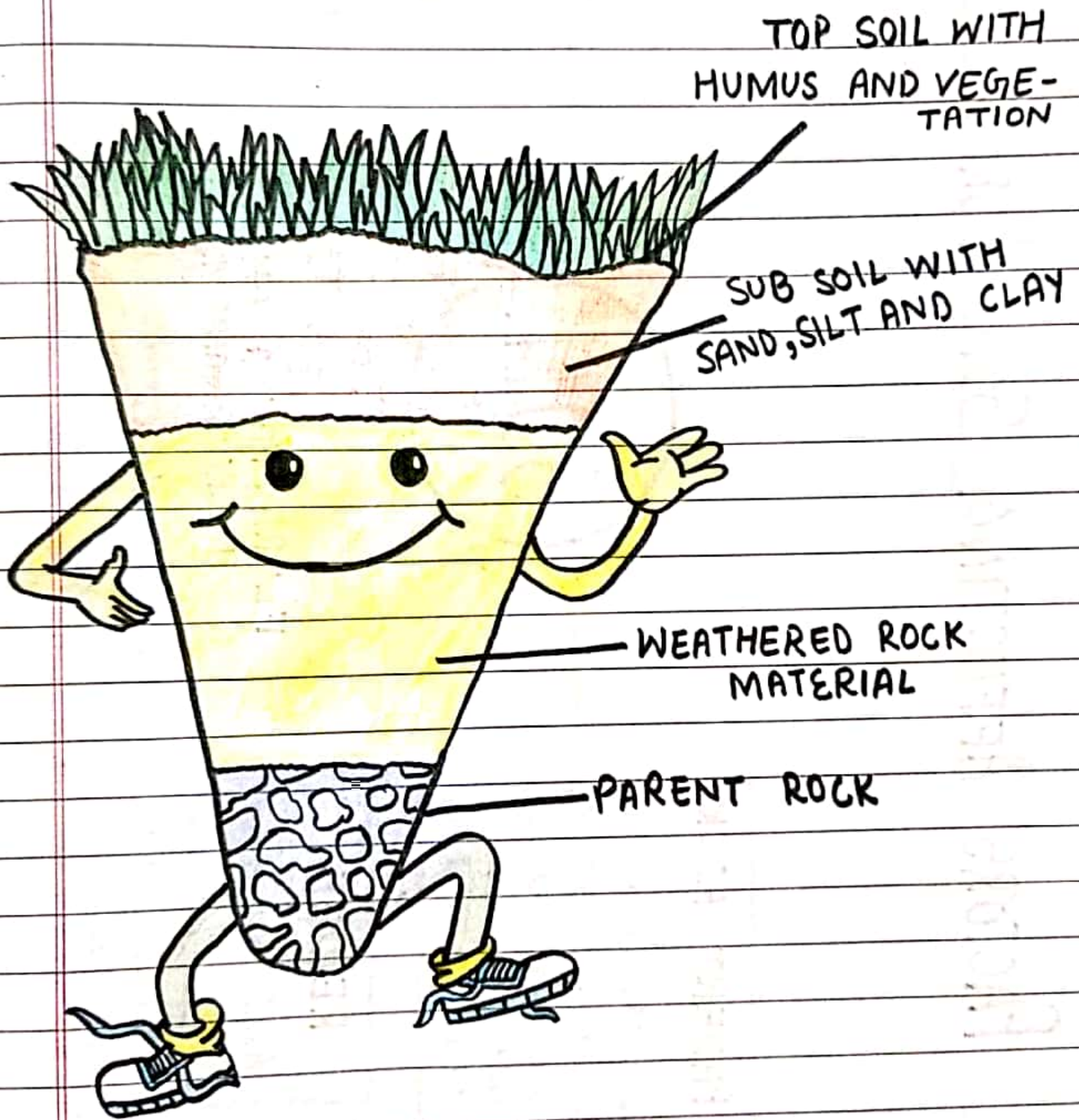
### Flora, Fauna and Micro-organism

Affect the rate of humus formation

### Time

Determine thickness of soil profile

SUKHLEENKAUR

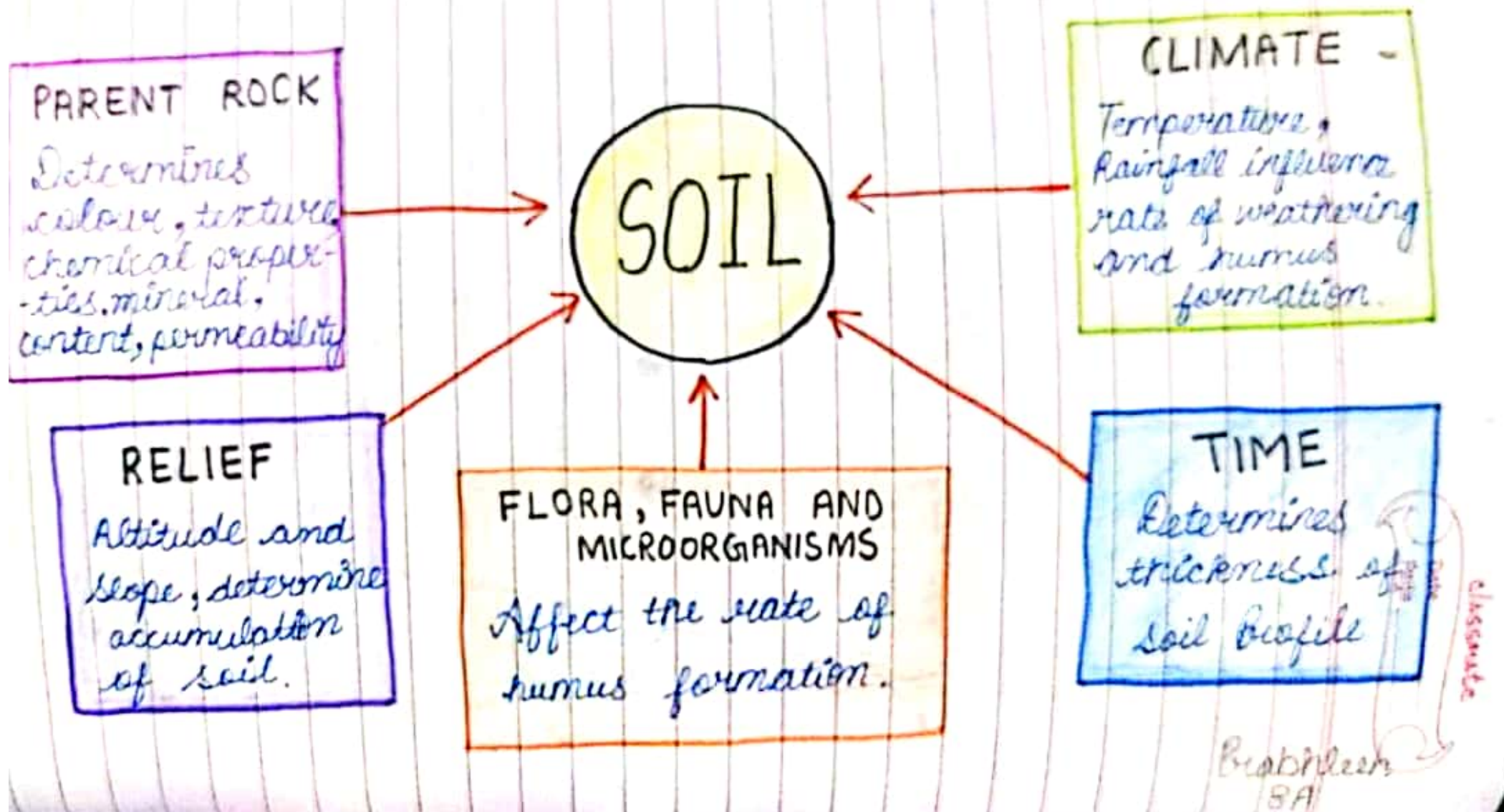


# SOIL PROFILE

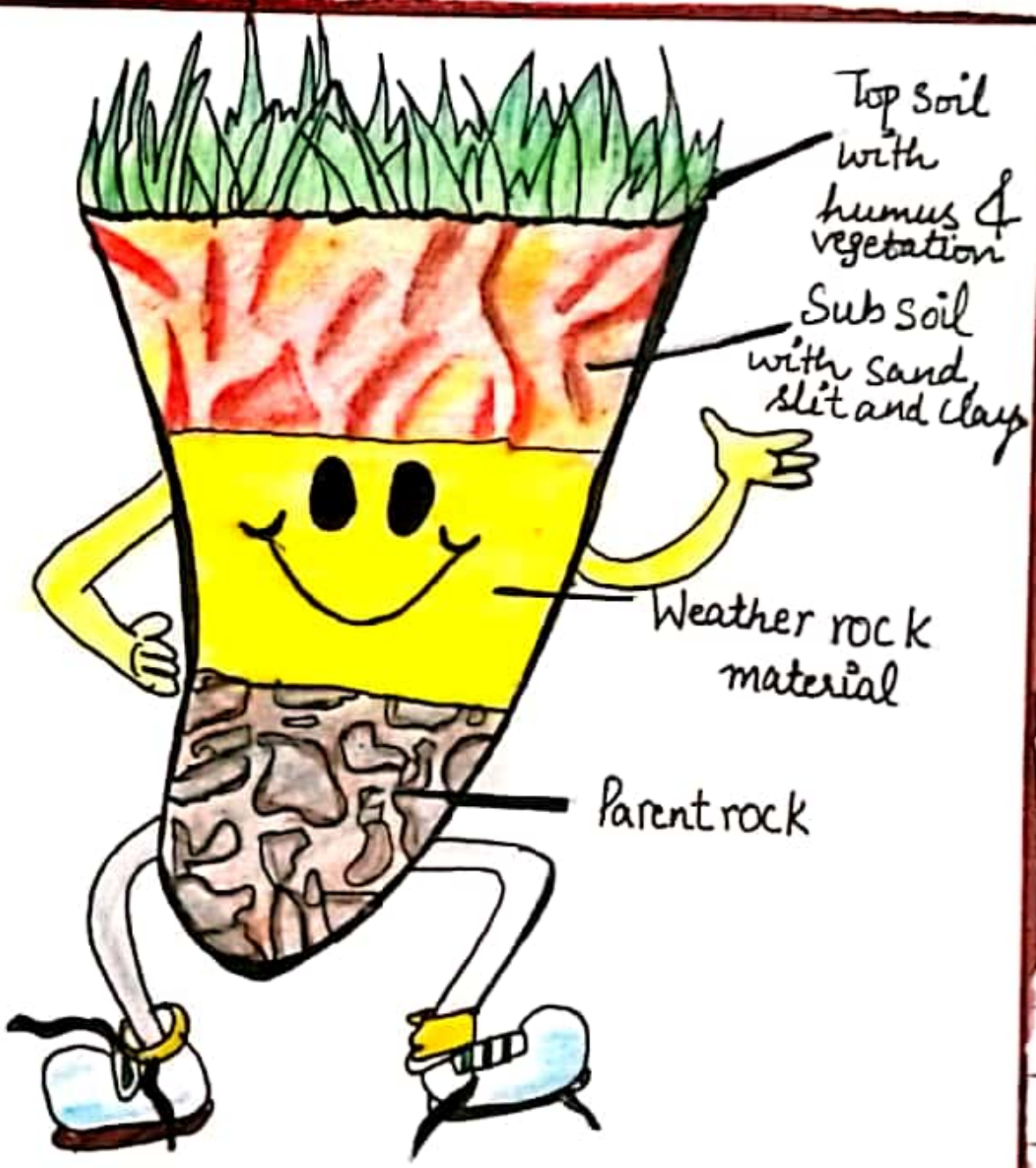
Prabhleen  
8A



# FACTORS AFFECTING SOIL FORMATION



# Soil-Profile



# Factors of Soil formation

Flora, fauna and Micro-organisms  
Affect the rate of humus formation

Parent rock  
Determines colour  
texture chemical  
properties mineral  
content permeability

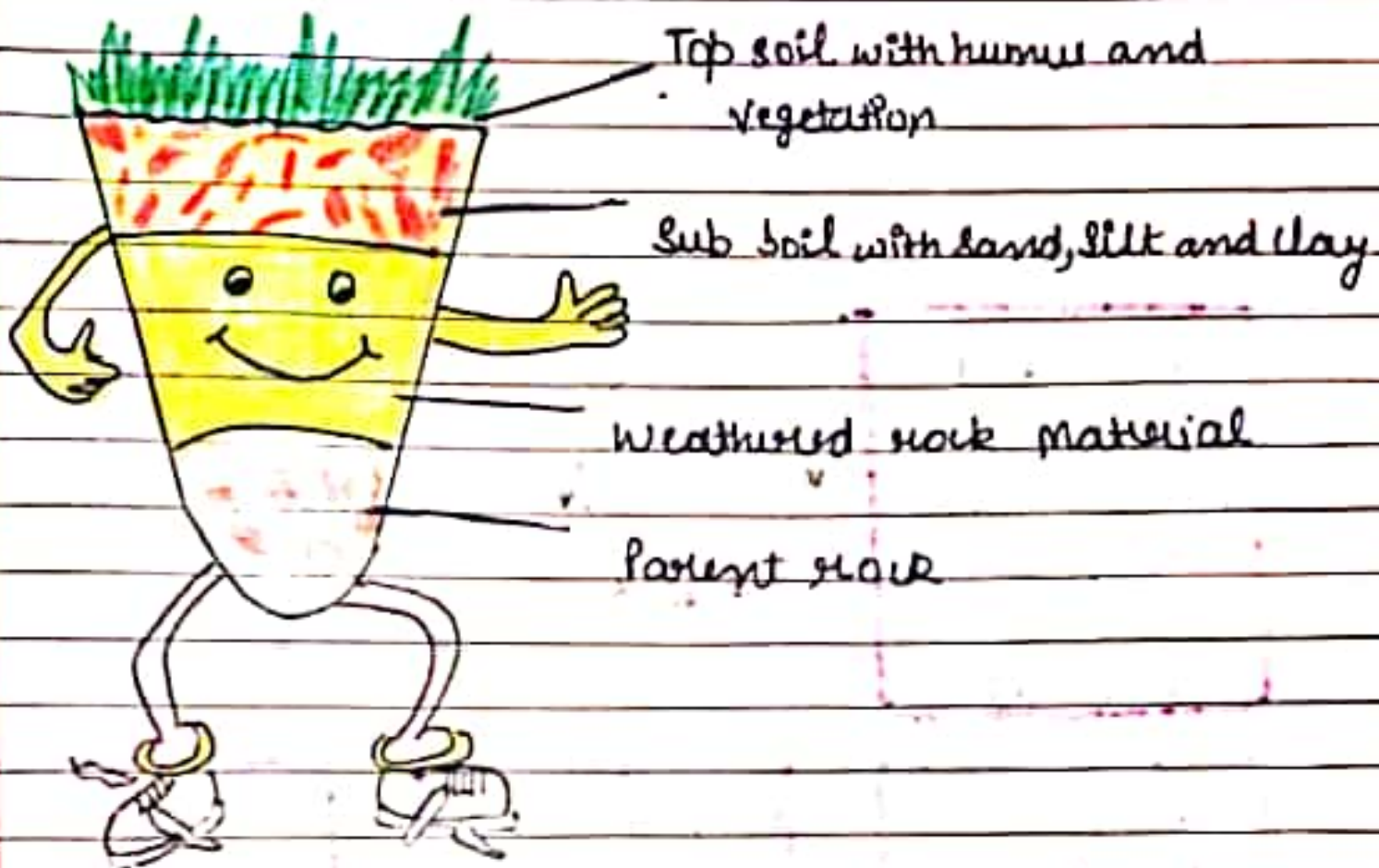
Soil

Climate  
Temperature  
Rainfall influence  
rate of weathering  
and humus formation

Relief  
Altitude and slope  
determine accumulation  
of soil

Time  
Determines thickness  
of soil profile

# Geography Activity



:- Soil Profile.

## Factors affecting soil formation

