

WHATIS



- SOME SOIL- FROM YOUR GARDEN OR SCHOOL, ADVISED TO WEAR GLOVES WHEN HANDLING SOIL
- AN EMPTY AND
 TRANSPARENT BOTTLE OR
 JAR
- · WATER

LEARNING OBJECTIVES

- 1.0BSERVATIONAL SKILLS
- 2.UNDERSTAND
 COMPONENTS OF
 SOIL

ROCK IS WEATHERED BY PHYSICAL AND CHEMICAL PROCESSES AND THE BROKEN PIECES FORM THE INORGANIC COMPONENT OF SOILS.

THE SMALL PARTICLES OF ROCK,
LARGER PIECES SUCH AS SAND GRAINS
AND HEAVIER PIECES CALLED STONES,
ALL FIND THEIR WAY INTO SOIL.

SOIL ALSO CONTAINS ORGANIC MATTER.
THIS IS MAINLY LEAF LITTER, (DECAYED
OR ROTTED PLANT MATTER) AND
HUMUS, (DECOMPOSED LEAF LITTER AND
ANIMAL REMAINS).

SOILS ALSO CONTAIN AIR, MICROBES, FUNGI, SMALL ANIMALS AND WATER.

WHEN WATER IS ADDED TO SOIL, THE TINY PARTICLES OF ROCK IN SOIL, FORM MUD.

DURATION

1 HOUR +

DIFFICULTY

EASY

ONCE YOU HAVE COLLECTED YOUR SOIL, PLACE IT INTO YOUR BOTTLE OR JAR, ADD WATER, AND SCREW THE LID BACK ON.

SHAKE THE BOTTLE WELL UNTIL YOU HAVE A MUDDY MIXTURE, AND LEAVE IT TO STAND.

OBSERVE THE SOIL, WHAT HAS HAPPENED?

LEAVE THE MIXTURE TO SETTLE FOR AS LONG AS POSSIBLE (BEST LEFT OVERNIGHT).

CAN YOU DISTINGUISH THE DIFFERENT COMPONENTS OF THE SOIL? AND EXPLAIN WHY YOU THINK THEY HAVE SEPARATED?

WHAT COMPONENTS MIGHT NOT BE VISIBLE?

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