

Plant Diversity Worksheet (Test for Chemical Parameters)

Secondary 5

Group: _____

Date: _____

Objective: To study the content in soil

Chemicals and apparatus:

Ammonia Test solution	Test tube with graduation mark
Nitrate Test solution	Measuring Cylinder (100 mL)
Nitrite Test solution	Beaker (50 mL)
Distilled Water	Spatula
Soil Sample	Electronic balance

Procedure:

1. Add 50 mL of distilled water into a beaker.
2. Collect 10 g soil sample from the Environmental Trail.
3. Add the soil sample into the beaker of distilled water and mix the solution.
4. Filter out the insoluble substances in soil and collect the filtrate.
5. Pour the 5 mL of filtrate into 3 test tubes with graduation mark respectively.
6. Add each test solution, according to its instructions, into one of the test tubes.
7. Record the concentration of ammonia, nitrite and nitrate in the results table.

Results:

Test Solution	Ammonia	Nitrite	Nitrate
Chemical Formula			
Concentration in solution of soil sample			

Discussions:

1. From your findings, which element is found in soil?

2. Why the element mentioned in Q1 is important for plant growth?
