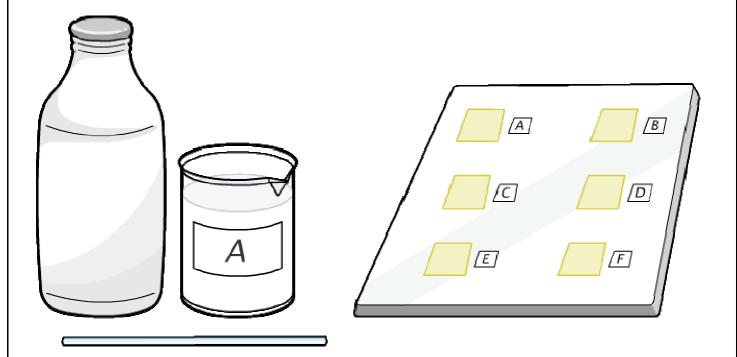
The pH Scale Worksheet One

This worksheet accompanies slide 4 of The pH Scale.ppt

Using universal indicator

Instructions:

- 1. Prepare a range of solutions from everyday sources, such as oranges, milk etc.
- 2. Carefully cut some pH paper into small squares, and then place them onto a tile.
- 3. Use a glass rod to transfer one drop of each solution onto one of the squares of pH paper.
- 4. Observe the color change and record it in the results table below.



Substance		Color of pH paper	рН	Acid, alkali or neutral?	Strong or weak?
A	e.g. milk				
В					
С					
D					
Е					
F					

Name:	Date:
Questions:	
1. Which substances were	re the strongest acids?
2. Which substances were	re the strongest alkalis?
3. Which substances were	re neutral?
4. Which substances are	too acidic or alkaline to eat?
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Name: Date:

The pH Scale Worksheet Two

This worksheet accompanies slide 7 of The pH Scale.ppt

Testing the pH of soils

Add an equal volume of distilled water to each soil sample

1. Rewrite these steps for soil testing in the correct order:

Record the results

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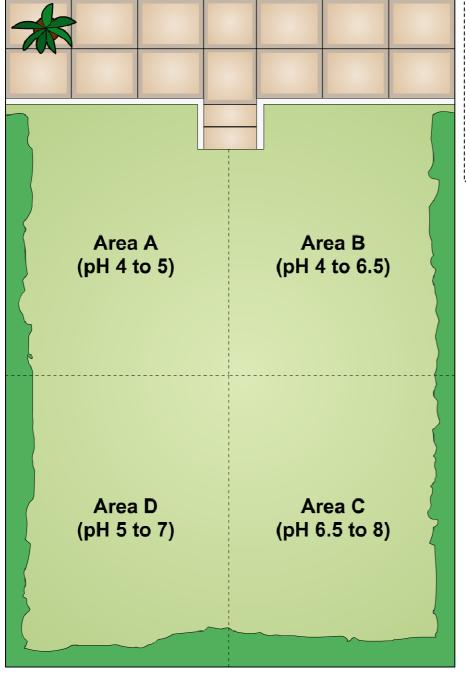
Allow the soil and water mixtures to settle

Using a clean spatula scoop the soil samples into test tubes						
Add universal indicator to each soil sample						
S	Shake the soil and water mixtures gently					
5	Step 1					
5	Step 2					
S	Step 3					
9	Step 4					
5	Step 5					
5	Step 6					
ϵ	What improvements could you make to this soil testing technique? For example, would the results be easier to read if the soil were filtered before adding the indicator? Would a pH meter be more reliable han litmus?					

3

Name: Date:

3. The map below shows the different acidities of the soil in a yard. Write down the names of the plants from the list that will grow best in each of the four different areas.



apple tree = pH 6
cranberry = pH 4.5
strawberries = pH 5.5
sweet peas = pH 7.5
yew tree = pH 7

Area A:

Area B:

Area C:

Area D: