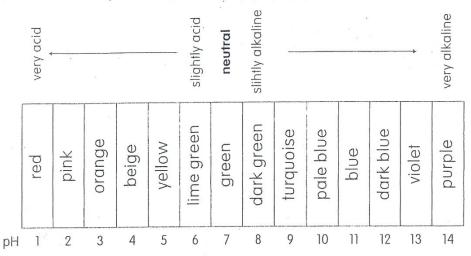
## St Luke's High School

## Second Year Science

## Changing Materials

## Homework Exercise 3

The table below was copied from Universal Indicator paper (pH paper).



Describe how the pH of a solution can be measured using pH paper.

- What colours does pH paper turn in acids?
- & What range of pH values indicates a solution is alkaline?
- d Name one neutral solution.
- What is the pH of neutral solutions?

(5)

2 As a homework exercise, pupils were asked to find the pH values of a number of substances found in the home. One pupil wrote down her results as follows:

_		-	
S -	lemon juice – 3	washing up liquid – 8	window cleaner – 12
> > _	indigestion tables	t – 10 coffee – 5 sugar solu	ution – 7 cola drink – 5
ດ ວ	vinegar – 4	bicarbonate of soda – 9	saltu water – 7

Make a table to show whether these substances were acid, alkali or neutral.

(5)

3. Explain what is meant by neutralisation.

(1)

 $\mathcal{L}_{i}$  . What are the two products formed in a neutralisation reaction?

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Explain why indigestion tablets are taken to relieve indigestion.

(2)