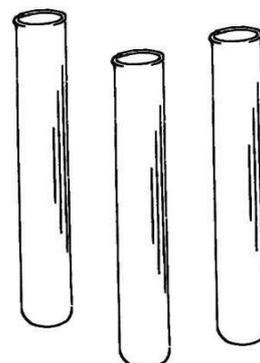
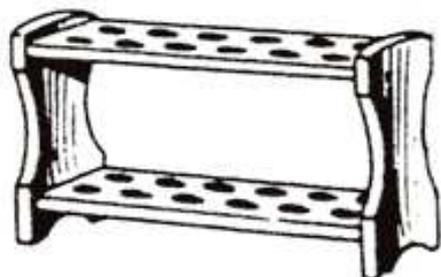


TESTING YOUR INDICATOR IN EVERYDAY SUBSTANCES



1. These are the instruments you will need in this experiment. Write their name in the line below them.





2. Make a prediction: what do you think, as a team, these substances are? Classify them as acid, neutral or alkali putting a cross in the cell you think is right. Give reasons.

	Acid	Neutral	Alkali
lemon juice			
laundry detergent powder			
bicarbonate			
salt			
Sprite			
Ajax			
Cillit bang			
peroxide water			
toothpaste			
ammonia			
vinegar			
baking soda			
antacid tablets			
aspirin			
Coca-cola			
washing-up liquid			
water			

We think that the substances marked above as acid are acidic because

As for the neutral substances, we think they are neutral because

Finally, we think that the substances marked above as alkalis are alkaline because



3. This is what you have to do now. Order these instructions 1-6 and perform the experiment. Record your results in the table below.

Add a few drops of red cabbage juice and record the change of colour in the table below. .

Repeat steps number 3, 4 and 5 with as many substances as you can.

Take three test tubes, and pour water (neutral) in the first one, a known acid in the second one and a known alkali in the third one.

Put this test tube on the test tube rack next to the acid, neutral or alkali indicator control.

Pour one of the substances you want to test in a test tube and label it.

Label them (acid, neutral, alkali) and put them in the test tube rack, and add a few drops of red cabbage juice. These three test tubes will be your indicator control.

ACID Red cabbage juice turns _____	NEUTRAL Red cabbage juice turns _____	ALKALI Red cabbage juice turns _____



4. How good was your prediction in exercise 2? Count your right answers and calculate your score.

Number of right answers:	Score: $\frac{\textit{number of right answers}}{\textit{total number of answers}} \cdot 10 =$
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5. Did you find anything unexpected? What was it? Write it down in these lines. This table will help you:

Although we thought that (name of substance) was	an acid	because ... (give reasons why you thought it was acid/neutral/alkali)	we found out that it wasn't.
	neutral		
	an alkali		
