Spellongal

Use with textbook pages 220-229.

Acids versus bases

1. Compare and contrast acids and bases by completing the following table.

Acids	Bases
5/	
	-
	3
	Acids

2. Classify each of the following as an acid or a base.

(a) + H_3PO_4	1
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2. Complete the following tables by using the two figures shown on the previous page. Identify whether the substance is an acid or a base and indicate what colour the pH indicator will turn.

Date

(a)

Name

Substance	pH Value	Acid or Base	Methyl Orange	Bromothymol Blue	Litmus
lemon					
ammonia					
milk					

(b)

Substance	pH Value	Acid or Base	Methyi Red	Phenolphthalein	Indigo Carmine
tomato					
oven cleaner				2333333	
egg		******	1		

3. Complete the following table. Identify whether the substance is an acid or a base and indicate what colour the pH indicator will turn.

Substance	pH Value	Acid or Base	pH Indicator	Colour of pH Indicator
black coffee	5	9	litmus	
milk of magnesia	10		phenolphthalein	
battery acid	0		bromothymol blue	
sea water	8		indigo carmine	273
orange juice	3		methyl orange	
liquid drain cleaner	14		methyl red	- ·