

NEUTRALISATION FOR OUR HEALTH

I. Fill in the gaps with the proper words listed.

1. Acid and alkalis can cancel each other out

a. If we add just the right amount of acid to an alkali we get a solution that is *..(a)..* We say that the acid and the alkali *..(b)..* each other. We call the *..(c)..* between an *..(d)..* and alkali *..(e)..* We can demonstrate the changes in acid-base properties of the solutions by using *..(f)..*

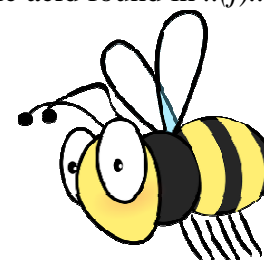
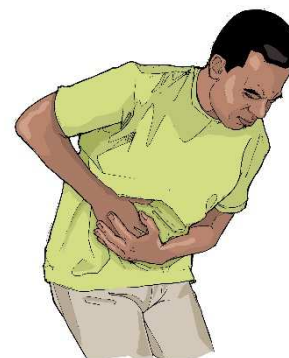
If we have indigestion, our stomach has probably produced too much *..(g)..* The acid in our stomach is a *..(h)..* acid, called *..(i)..* Some people take *..(j)..* medicine. This contains very mild *..(k)..* such as magnesium hydroxide. The alkalis *..(l)..* the extra acid.

Word list: 1: acid, 2: acid, 3: alkalis, 4: hydrochloric acid, 5: indicators, 6: indigestion, 7: neutral, 8: neutralisation, 9: neutralise, 10: neutralise, 11: reaction, 12: strong,

b. One of the most frequent digestion problem is heartburn. The reason of the excruciating stomach ache usually roots in *..(a)..*, although it can be one of the *..(b)..* of different serious *..(c)..* (i.e. gastric ulcer). The heavy, stomach- affecting, acidic food, increases *...(d)...*, and may cause *...(e)...* Although there are plenty of different *..(f)..* to cure gastric pain, the baking soda has been used since our grandparents' time as well as the treatment of (hyperacidity) acid stomach.

The chemical name of baking soda is *..(g)..* It is a white crystallized compound with moderate solubility in water. Its watery solution is *..(h)..* Consequently, chemically it can be used *..(i)..* the hydrochloric acid found in *..(j)..*

Word list: 1: alkaline, 2: eating habit, 3: gastric acid production, 4: gastric juice, 5: heartburn, 6: illnesses, 7: medicines, 8: sodium bicarbonate, 9: symptoms, 10: to neutralize,



II. Fill in the chart with the proper words.

animal/plant	Is the venom acidic or alkaline?	Name the venom if known	Cure with vinegar or baking soda solution
ant			
wasp			
hornet			
bee			
pine leaves			
nettle			

Solution:

I.

a.

a	b	c	d	e	f	g	h	i	j	k	l
7	9	11	1	8	5	2	12	4	6	3	10

b.

a	b	c	d	e	f	g	h	i	j
2	9	6	3	5	7	8	1	10	4

II.

animal/plant	Is the venom acidic or alkaline?	name the venom if known	cure with vinegar or baking soda solution
ant	acidic	formic acid	baking soda solution
wasp	alkaline	—	vinegar
hornet	alkaline	—	vinegar
bee	acidic	formic acid	baking soda solution
pine leaves	acidic	formic acid, phenolic acid	baking soda solution
nettle	acidic	formic acid	baking soda solution