## REVIEW I: ACIDS AND BASES

What is an acid? 1. 2. What is a base? 3. What is a salt? 4. What is an indicator? 5. Give the name and formula of two acids. Give the name and formula of two bases. Give the name of two indicators. When acids react with bases, what do they produce? When bases react with acids, what do they produce? What is neutralisation? When acids react with a metal, what do they produce? When acids react with a metal carbonate, what do they produce? How do you recognize an acid? 13 How do you recognize a base? What effects red litmus paper? What effects blue litmus paper? 17. What type of solution is when red litmus paper stays red, and when blue litmus paper stays blue? What effect does an acid have on the electrical conductivity apparatus? 18. 19. What effect does a base have on the electrical conductivity apparatus? 20. What effect does an acid have on pH paper? What effect does a base have on a base? Name two household products that are acids. 23. Name two household products that are bases. 24. What solution is needed to clean fat, oils or grease. 25. A solution causes phenolphthalein to turn magenta, what type of solution is it? An indicator is blue in bases, yellow in acids and green at a pH of 7, what is this indicator likely 26.

What is the effect of acid rain on the limestone and marble buildings?

27.

## **REVIEW II: ACIDS AND BASES**

1.	The pH scale:	(a) begins on the left with the number
		(b) ends on the right with the number
		(c) number is the most basic
		(d) number is the most acidic.
		(e) number indicates that the solution is neutral.
		(f) pH 4 is more acidic than a pH 6
		(g) pH 11 is more basic than a pH 8
		(h) a solution with a pH of 2 is more / less concentrated than a solution of pH 4
2.	When equal vo	lumes of equal concentrations of hydrochloric acid, $HCl_{(aq)}$ , and sodium
		$OH_{(aq)}$ , they neutralise each other.
		at is meant by neutralization.
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	(b) What produ	acts are created?
	(b) What produ	oto die oreated.
	(c) What is the	pH of the resulting solution?
	(c) What is the	pri of the resulting solution:
_	(d) What hann	ens to the properties of the acid and base?
	(u) what happe	and base:
	(a) Write a wes	rd equation for this reaction.
	(c) write a wor	d equation for this reaction.
	Write a ske	eton equation with states.
	(1) Write a ske	eton equation with states.
	(a) Write a bal	annead ahamical aquation for this reaction
	(g) write a bar	anced chemical equation for this reaction.
	(h) Driafly, ayın	lain have you would authort the galt from this galution
	on Briefly exp	lain how you would extract the salt from this solution.
3	Roth bees and	wasps will sting you if they feel threatened, but there is a big difference between
J. (		y inject into you. A wasp's poison is a compound that is highly basic while a
	_	highly acidic. Suggest what possible substance you would use to neutralise the
	•	e and wasp sting, justify your response.
	cricci or the be	e and wasp sting, justify your response.
4	Many oven and	drain cleaners contain sodium hydroxide, if phenolphthalein was added to a
7.	•	n or drain cleaner, what colour change would you expect to see.
	solution of ove	if of drain cleaner, what colour change would you expect to see.
5.	Altering goil n	H can affect plant growth and even colour of the flowers. Hydrangeas produce
3.		acidic soils and pink flowers in basic soils. If you, at present have pink
		wing in your garden, however you find the blue more appealing to your taste,
		arding the soil in your garden, would you take to correct this situation.
	what steps, reg	arding the son in your garden, would you take to correct this situation.
6.	Like the nH se	ale, scientists use a logarithmic unit to measure the strength of an earthquake —
0.		le. An earthquake measuring 8 on the Richter scale is 10 times as strong as on of
		y is sound, like the pH scale, is also measured by the same logarithmic unit of
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		of 90 dB is 10 times the intensity of a sound of 80 dB. Solution A has a pH of
		lution B has a pH of 9.8, compare the pH of these two solutions on the logarithmic
	scale.	
7	The art 1 1	Change 11 and must be maintained within a second
7.	•	f human blood must be maintained within a very narrow range. At room
	_	ormal blood pH is 7.35. Emphysema, diabetes, or a drug overdose can cause the
		p. This is known as acidosis. Excessive vomiting or kidney disease can cause the
	pH level to inc	rease. This is known as alkalosis. Explain how you would correct the pH of a

person suffering from diabetes or one suffering from kidney disease.