Acids and bases and metals - Video Test (on-line)

I will have this link on the web page, OR your can go on line . WATCH the Video! http://www.bbc.co.uk/bitesize/ks3/science/chemical_material_behaviour/acids_bases_metals/activity/

1. Which of these acids is most likely to be dangerous? citric carbonic hydrochloric

- 2. Which statement about bases is true?
 they are all alkalis they can neutralize acids they are all soluble
- 3. Which statement about alkalis is true? they are all bases they cannot neutralize acids they are all insoluble
- 4. What happens to litmus paper in acidic solutions? red litmus turns blue blue litmus turns red yellow litmus turns green
- 5. Universal indicator solution is usually green to begin with. What does this mean? It is: acidic alkaline neutral
- 6. A liquid has a pH of 7.5 -what does this mean? weakly acidic weakly alkaline neutral
- 7. A liquid has a pH of 1 what does this mean? it must be sodium hydroxide solution it is strongly acidic it is weakly acidic
- 8. What products are formed when a metal oxide reacts with an acid? a salt only a salt and water a salt, water and carbon dioxide
- 9. What products are formed when a metal carbonate reacts with an acid? a salt only a salt and water a salt, water and carbon dioxide
- 10. Farmers use lime to neutralize their soils. What sort of substance is lime? a base an acid a sharp tasting drink
- 11. Which acid could be used to make ammonium nitrate (a type of fertilizer)? hydrochloric sulfuric nitric
- 12. Which salt is made when copper oxide and sulfuric acid react together? Copper: sulfate sulfuroxide sulfide
- 13. Which gas is produced when magnesium reacts with hydrochloric acid? carbon dioxide oxygen hydrogen

Teach a parent: Today's concept:

Teach your parents about the differences between: acids, bases, salts and indicators.

Help your parent become an expert! Be sure they write what they have learned from your teaching

Parent Response

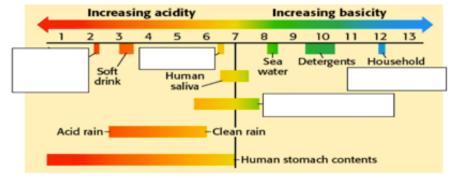
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1 I'm not sure my child really understa	ands, therefore, I don't either.	
2 The concept was explained thorough	Jhly with effective examples he/she created.	
3 WOW! My child did an exceptional job	bb! It was logically explained,	
Parent Signature:	Date:	
Please explain how your student taugl		rned
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A.I.	5.4	0 '4	
Name	Pd	Sci#	

Chp 16: Chemical Compounds Acids, Bases & Neutrals Draw, color(using the Cabbage in Chem Colors) and label the pH scale Write examples of what are found in the main sections

	write examples of what are found in the main sections				
pН	Color Based on our lab (color this)	What is it? acid/base/neutral Weak acid/base?	examples		
0					
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					

Color the pH scale with red, yellow green blue (using pg 404) and fill in the boxes



Chapter To. page 401-400 Section	
I. An is any compound that _	the number of
ions when dissolved in	
	of certain compounds.
Solutions of acids conduct an electric cur	
ions in water. Acids increase the number	
B. Choose the acid in Column B that best m	
Column A	Column B
treating heartburn	a. ammonia
unclogging drains & making soap	
making cement	c. sodium hydroxide
household cleaning	d. magnesium hydroxide
 Which of the following are weak acids? C 	
sulfuric acid carbonic acid phosphoric ac	rid citric acid nitric acid hydrochloric
acid	
5. A is any compound that	the number of
ions when dissolved in water, and whose	
, and can change the co	olor of certain compounds.
Why do people take antacid tablets if the	y have heartburn?
7. Acids & bases one a	another because the H+ of the acid and
OH- of a base react to form	
base are also dissolved in the water. If th	e water is evaporated, these ions join to
form a compound called a	o water to evaperated, these tens join t
12. What is the pH scale?	
13. 5 bullet points for Acids Bases Neutrals fro	om your Cabbages in Chem reading
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2.	
3	
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5	
1	
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1	
5	
1.	
<u>2</u> .	
2 3.	
2	

Chapter 16, nego 101 106 Section 2, Acida Bases 9 Salta

<u>Virtual Lab: Alien Juice Bar</u> :Click on the link below from Mrs Gillum's Web page!

http://www.lawrencehallofscience.org/kidsite/portfolio/alien-juice-bar/

Challenge 1: Alien Juice Bar

- 1. Click on Challenge 1, then "start".
- 2. Answer the question WHAT IS AN INDICATOR below

3. Click on the pitcher of cabbage juice & drag towards one of the three drinks. The cabbage juice will pour into a beaker & may or may not change color. Continue until all three drinks have been poured.

4. Place the drinks onto the correct shelf above the alien's head. When done, pull the "check me" lever. If you are wrong, the bottles will come off the shelf.

5. Show results below.

Drink	Color in Beaker	Acid Base Neutral
Window Cleaner		
Lemon Juice		
Water		

- 6. Click on the pitcher of cabbage juice & drag towards one of the nine drinks. You may pour the cabbage juice to indicate if it is an acidic, basic or neutral drink.
- 7. Continue until all nine drinks have been poured, or you can try to guess the pH of each bottle!
- 8. Place the drinks onto the correct shelf above the alien's head. When done, pull the "check me"

lever. If you are wrong, the bottles will come off the shelf – try again until you get them all right!

9. Fill in the table below to indicate where each drink belongs.

Challenge 2: The Flying Cabbage Juice Bar

- 1. Read the directions on the screen & hit "Start".
- 2. Listen to your customers carefully, if you give them the wrong drink, they can get sick or even die & you will lose your license!
- 3. You can test the pH of each drink with the pitcher of cabbage juice & you can also restock the shelf if you run low on drinks. Record results below.

Customer #	They asked for:	You gave:	Sick Customer? Try again	Yummy or dead?
Example	Neutral	Lemon Juice	Water	Yummy!
1				
2				
3				
4				