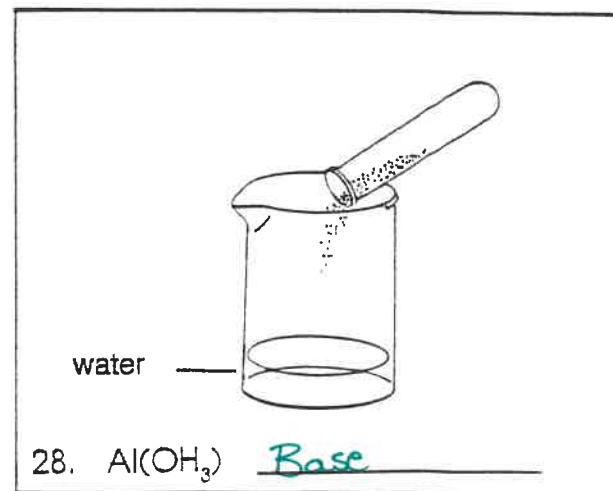
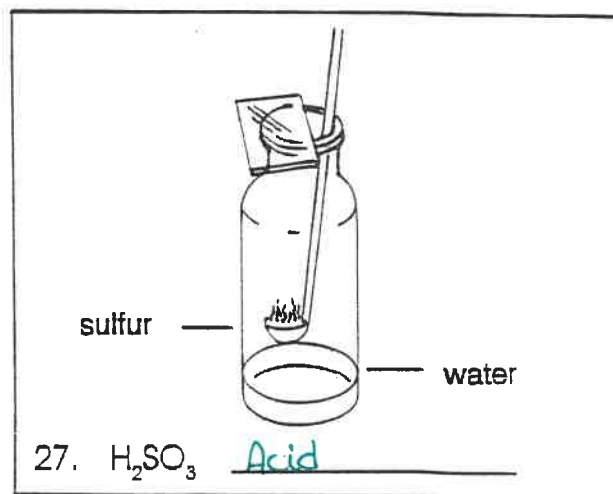
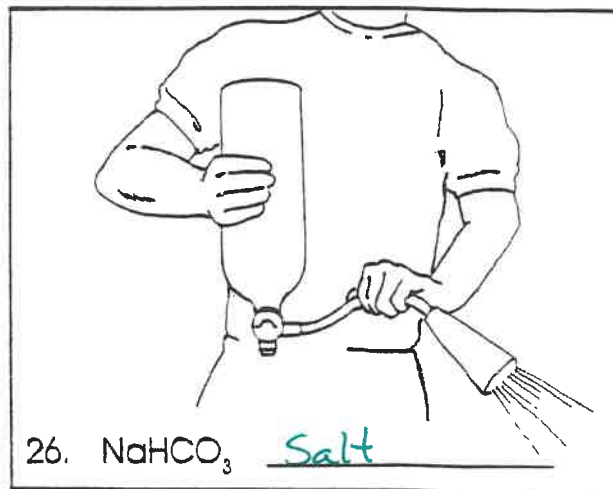


ACID, BASE OR SALT?

Name Key.

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

1. HNO_3 Acid
2. NaOH Base
3. NaNO_3 Salt
4. HCl Acid
5. KCl Salt
6. Ba(OH)_2 Base
7. KOH Base
8. H_2S Acid
9. $\text{Al(NO}_2)_3$ Salt
10. H_2SO_4 Acid
11. CaCl_2 Salt
12. H_3PO_4 Acid
13. Na_2SO_4 Salt
14. Mg(OH)_2 Base
15. H_2CO_3 Acid
16. NH_4OH Base
17. NH_4Cl Salt
18. HBr Acid
19. FeBr_3 Salt
20. HF Acid
21. NaCl Salt
22. Ca(OH)_2 Base
23. $\text{HC}_2\text{H}_3\text{O}_2$ Acid
24. CuCl_2 Salt
25. HNO_2 Acid



16.2 SCIENCE 10: ACIDS AND BASES

Key

- Name some common acids found in your home.
O.j., pop, vinegar
- Name some common bases used in your home.
bleach, hand soap, tums, tooth paste
- How are salts formed?
By combining an Acid & a Base = neutralization reaction
- The pH values of several solutions are given below. In each case, tell whether the solution is acidic, basic, or neutral.

a) 2.3 Acid	b) 9.6 Base	c) 7.3 Base
d) 7.0 Neutral	e) 6.8 Acid	f) 13.7 Base
- State whether each of the following substances is acidic, basic, or neutral.
 - turns red litmus paper blue
b
 - has a pH of 7
n
 - produces hydroxide ions in water solution
b
 - has no effect on either red or blue litmus paper
n
 - has a pH of 12
b
 - is made from the juice of lemons
a
 - has a pH of 3
a
- State whether each of the following statements is true or false. If false, rewrite the statement to make it correct.
 - Vinegar is an acid that turns blue litmus paper red.
T
 - Acidic and basic solutions conduct electricity because they contain ions.
T
 - A solution used to clean household drains is acidic and turns red litmus paper blue.
F basic
 - "Antacid" means "against acid," and most acids are antacids.
F bases
 - The term "alkali" is a common name for a base.
T
 - The reaction between an antacid and a base is called neutralization.
F acid
 - A base is a compound which dissolves in water to produce hydrogen ions in solution.
F
- Balance the following equations.
 - Name the salts in each equation.
 - $\text{HNO}_3 + \text{NaOH} \rightarrow \text{H}_2\text{O} + \text{NaNO}_3$ sodium nitrate
 - $\text{HCl} + \text{KOH} \rightarrow \text{H}_2\text{O} + \text{KCl}$ potassium chloride
 - $2\text{HCl} + \text{Ca}(\text{OH})_2 \rightarrow 2\text{H}_2\text{O} + \text{CaCl}_2$ calcium chloride
 - $\text{H}_2\text{CO}_3 + 2\text{NaOH} \rightarrow 2\text{H}_2\text{O} + \text{Na}_2\text{CO}_3$ sodium carbonate