

Applications of Acids and Bases

Acids and bases have a number of uses in biological systems, industry, and even around the house. During today's class you will be doing some simple internet research to discover how acids and bases impact our daily lives.

Part 1

Listed below are a number of acids and bases that we may use or encounter in our daily lives. For each acid or base, use the internet to determine:

- the chemical formula of the acid or base.
- two ways that the acid or base is used for (either in nature, industry, or around the house).

Acid or Base	Formula	Application
hydrochloric acid		Use #1:
		Use #2:
formic acid		Use #1:
		Use #2:
citric acid		Use #1:
		Use #2:
nitric acid		Use #1:
		Use #2:
acetic acid		Use #1:
		Use #2:
hydrofluoric acid		Use #1:
		Use #2:

Acid or Base	Formula	Application
sulfuric acid		Use #1:
		Use #2:
sodium hydroxide		Use #1:
		Use #2:
calcium hydroxide		Use #1:
		Use #2:
ammonia		Use #1:
		Use #2:

Part 2

By searching the internet, answer each of the following questions.

- Why do green apples taste sour? _____

- Why does orange juice taste salty if you drink it after brushing your teeth? _____

- Why does acid rain cause damage to marble statues? _____

4. How does pouring baking soda on an acid spill make the area safe? _____

5. How does an antacid get rid of heartburn? _____
