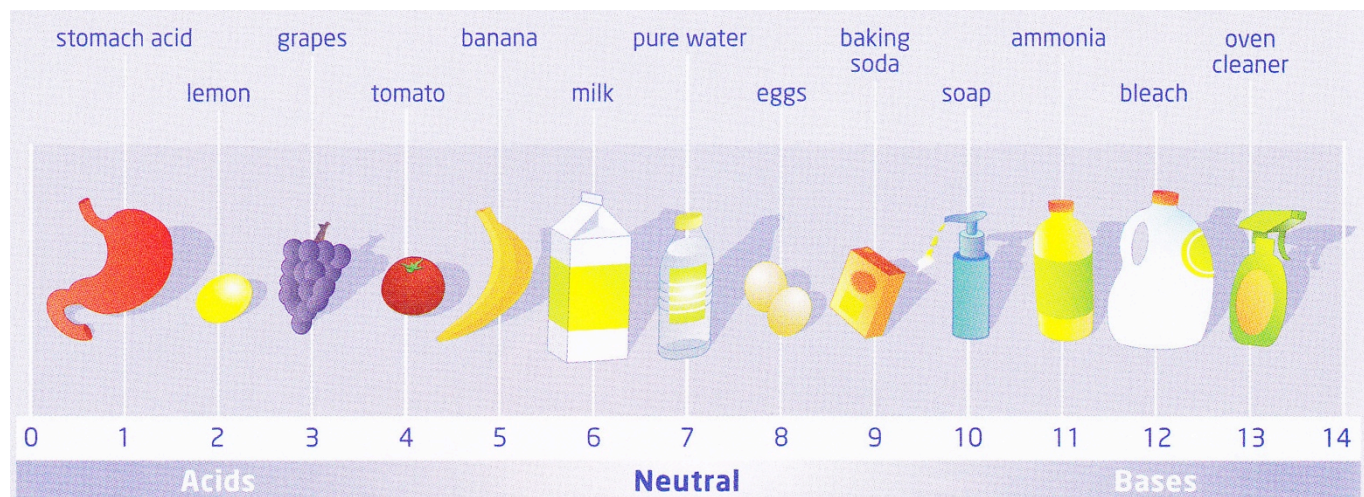


Name: _____

Date: _____

Worksheet 11B The pH Scale (Nelson p.194-195)

- 1) Complete the table using the information shown on the scale. **Identify** if the substance is an acid or a base. Then, **sort** the items from most acidic to most basic.



| Substance | pH Value | Acid or Base? | Most Acidic (1) to most basic (9) |
|--------------|----------|---------------|-----------------------------------|
| Lemon | | | |
| Ammonia | | | |
| Milk | | | |
| Tomato | | | |
| Oven cleaner | | | |
| Egg | | | |
| Soap | | | |
| Grapes | | | |
| Pure water | | | |

- 2) What is a **pH scale**?

- 3) Summarize the **pH values** associated with acids, with bases, and with neutral solutions.

4) Identify the following as **acidic, basic or neutral**:

a) Egg white (pH 7.8) _____

b) Coffee (pH 5.0) _____

c) Urine (pH 6.0) _____

d) Bleach (pH 12.4) _____

5) Sort the items in **question 4** from **most basic to most acidic**.

6) A solution has a pH of 4. Is it **acidic, basic, or neutral**?

7) What is a **pH indicator**?

8) A solution caused red litmus paper to turn blue. Was the solution acidic, neutral, or basic?

9) State **one method** you can use to **determine the pH** of a solution more **accurately**.