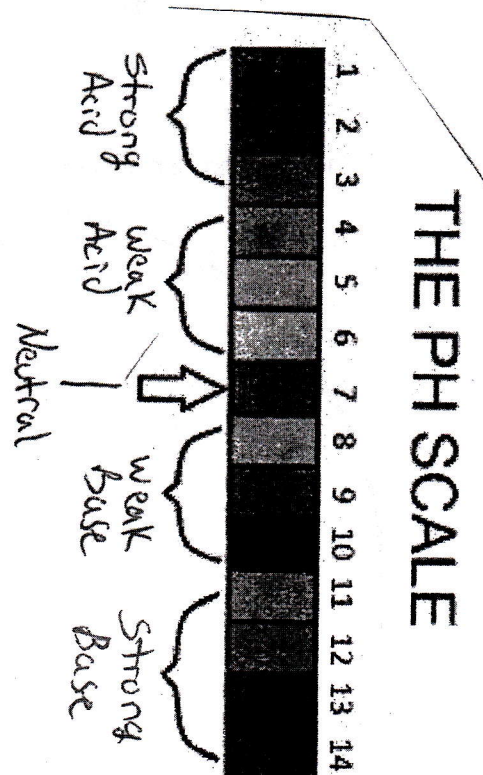


Pre-Lab Questions:

1. What is the range of the pH scale?
2. List some properties of Acids (include the Acid pH range)
3. List some properties of Bases. (include the Base pH range)
4. How are acids and bases different?
5. What does the pH scale measure?

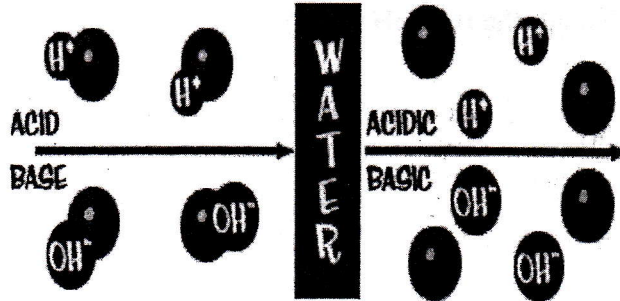
Name of Substance	pH level	Acid	Base	Neutral



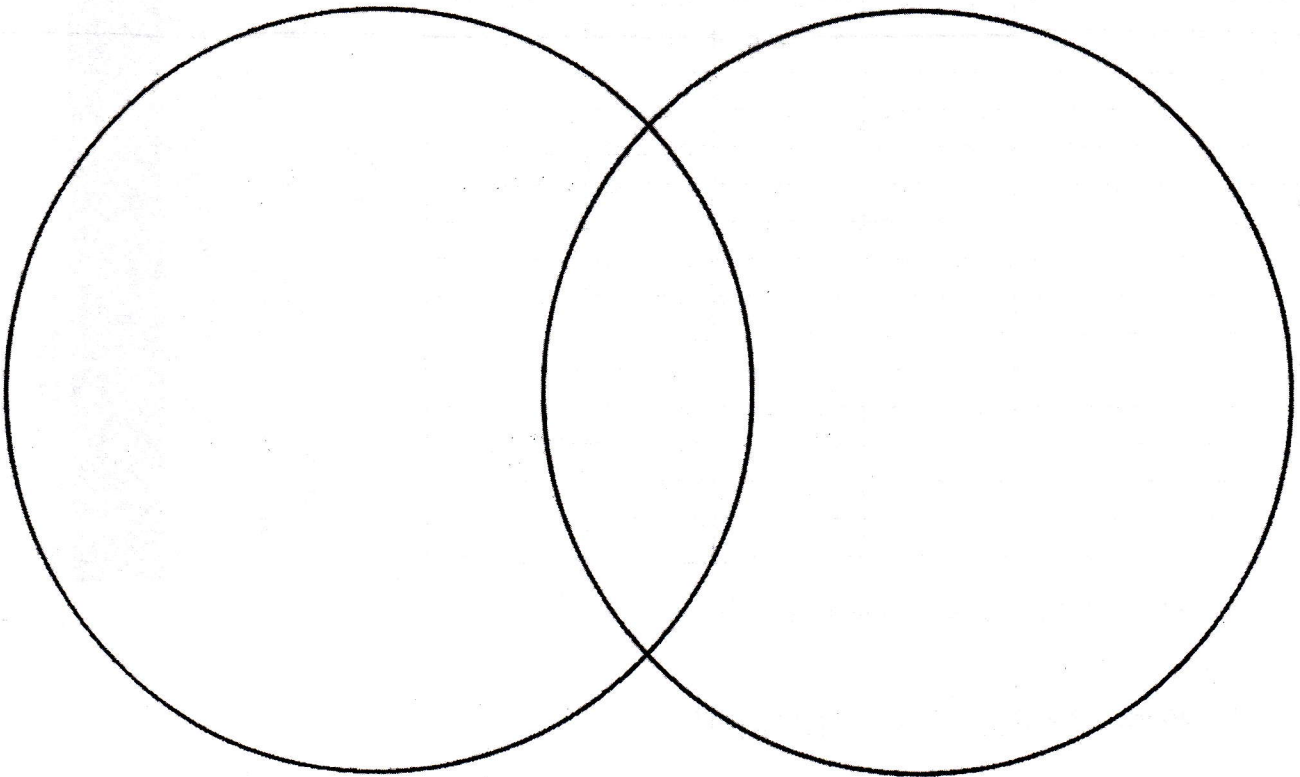
6. Which of the liquids had the lowest pH?
7. Which of the liquids had the highest pH?
8. Which of the liquids were closest to being neutral?
9. If a sample of soil has a pH that is too low (like 2 or 3) how might one increase the pH?
10. If a sample of soil has a pH that is too high (like 11 or 12) how might one decrease the pH?

- An **acid** is a substance that breaks down into H^+ ions when dissolved in a solution. This means that acids have a high _____ concentration.
- A **base** is a substance that breaks down into OH^- ions when dissolved in a solution. This means that bases have a high _____ concentration.

Label the Hydrogen ion and the Hydroxide ion in the image below:



- In the Venn diagram below compare and contrast acids vs. bases.



Quick checkpoint: Which one is an acid and which one is a base?

