- $\circ$   $\;$  Acids and bases are classified as weak or strong.
- A **strong acid** completely dissociates into its separate ions: for example; hydrochloric acid dissociates into H+ and Cl-.
- A strong base also completely dissociates into its separate ions: for example; NaOH dissociates into Na+ and OH-. The OH- can then react with H+ to form H2O, thus removing H+ from the solution.
- Like a strong acid, a weak acid releases H+ into a solution, however, it does not completely dissociate into its separate ions. A weak acid releases H+ until equilibrium with the surrounding solution is reached, and then, no more H+ dissociates.
- Weak acids are common in living systems, and they play important roles in preventing large changes in body fluid pH.

## Differentiate between hypotension and hypertension.

- **Hypotension** means low blood pressure and on the opposite end is **Hypertension**, which means a high blood pressure.
- *Hypertension* is an abnormally high systemic blood pressure, and is related to blood vessel disease.
- Ongoing *hypertension* can cause damage to small blood vessels throughout the body as well as to organs such as the kidneys, brain and heart.
- Treatment for hypertension includes lifestyle changes, medication and exercise.
- Hypotension or low blood pressure, means that blood could not be Gerhag all areas as it should.
- Chronic *low blood pressure* without any symptops soler a cause for concern, however, the blood pressure can sudded your op and deprive the brain of oxygen.
- The causes of hypotension are lot understood builcourd be due to age, pregnancy, hormonal problems, due to medication among other things. Treatment includes dietary country and exercise as velocistaying hydrated.

## List the signs and symptoms of hypotension.

Could include:

- o Dizziness or lightheadedness
- o Unsteadiness
- o Weakness
- o Fatigue
- o Nausea
- Cold, clammy skin
- Fainting
- o Pale skin

## List the signs and symptoms of hypertension.

- o Can be symptomless
- A blood pressure reading above 130/80 or higher
- Signs too look out for include; severe headache, fatigue, confusion, problems with vision, chest pain, difficulty breathing, irregular heartbeat, pounding in your chest, ears or neck.