

## **Yr10 Useful words (Section 1)**

1. MRS GRENC / MRS H GREN – The 7 fundamental things all living things must do to stay alive.
2. Diffusion: Particles/molecules move down a concentration gradient, from an area of high concentration to an area of low.
3. Osmosis: water moves down a water potential gradient across a partially permeable membrane
4. Active transport: Particles/molecules are pumped up a concentration gradient, from an area of low concentration to an area of high
5. Reproduction: cells divide to make more cells (asexual) or gametes combine to make a new individual (sexual)
6. Stem cells: undifferentiated cells that divide to give rise to cells of different types (and regenerate themselves at the same time).
7. Cells: A group of organelles, working together for a common purpose (plasma membrane, cytoplasm, nucleus...etc)
8. Tissue: A group of cells, working together for a common purpose (muscle in animals, Xylem in plants)
9. Organs: A group of tissues, working together for a common purpose (lungs in animals, leaf in plants)
10. Organ system: A group of organs, working together for a common purpose (digestive system in animals, root system in plants)
11. Enzyme: Biological catalyst made from protein that makes chemical reactions go faster, without ever getting used up.
12. Lock and Key: Enzymes require a complimentary active site to interact with a substrate
13. Balanced diet: A diet that contains all the different food groups in their correct amounts
14. Pathogen: A Micro-organisms (including viruses and bacteria) which can cause disease.