

**Class Set – DO NOT REMOVE FROM CLASSROOM**  
**Unit 5 – Terminology**  
**Cell cycle, mitosis and differentiation**

1. **Apoptosis** – cell death
2. **Asexual Reproduction** – Production of genetically identical offspring from a single parent
3. **Centromere** – Protein disc that holds sister chromatids together
4. **Chromatid** – one of two identical “sister” parts of a duplicated chromosome.
5. **Chromatin** – DNA tightly coiled around histones
6. **Chromosome** – Thread like structure of DNA and protein that contains genetic information
7. **Differentiation** – Process in which cells become specialized
8. **Diploid** – Term used to refer to a cell that contains two sets of homologous chromosomes
9. **DNA** – Deoxyribonucleic acid, genetic material that organisms inherit from their parents
10. **Gene** – Sequence of DNA that codes for a protein and thus determines a trait; factor that is passed from parent to offspring
11. **Homologous Chromosome** – Pair of chromosomes
12. **Mitosis** – Eukaryotic cell division in which the cell divides, Prophase, Metaphase, Anaphase, Telophase
13. **Sexual Reproduction** – Production of offspring by fusing of two separate parent cells (egg & sperm)
14. **Sister Chromatid** – Pair of identical chromatids joined together by centromere
15. **Somatic Cell** – Cells of the body not used in reproduction