**Cells Unit – Key Terms**

**Stage 1 Biology**

**Macromolecule**

Polymer

Monomer

Carbohydrate

Simple sugar

Complex sugar

Nucleic acid (DNA/RNA)

Nucleotide

Amino acid

Protein

Lipid

Fats/oils

Chemical energy

**7 characteristics of life**

Prokaryotic

Eukaryotic

Spontaneous generation

**Organelles** *\*know structure/function*

Multicellular

Unicellular

Phospholipid (bi-layer)

Fluid Mosaic Model

Plasma membrane

Semipermeable

Cholesterol

Glycolipids

Glycoproteins

Peripheral vs integral proteins

Surface area

Volume

SA:V ratio

**Passive transport**

Facilitator proteins

* Carrier vs channel

Diffusion

Osmosis

Concentration gradient



Isotonic

Hypotonic

Hypertonic

Solvent / Solute

Flaccid

Plasmolysis

Lysis

Turgor pressure

**Active transport**

Exocytosis

Endocytosis

Phagocytosis

Pinocytosis

**Respiration**

Aerobic respiration

Anaerobic respiration

* Alcohol fermentation
* Lactic acid fermentation
* ATP / ADP

**Photosynthesis**

Catabolic reaction

Anabolic reaction

**Mitosis** (PMATC)

Cell cycle stages

Binary fission

**Protein synthesis**

Transcription

Template strand

mRNA

RNA polymerase

Translation

rRNA (ribosome)

tRNA

codon

anticodon

polypeptide