Learning Journey Map –Y10 biology combined
Developing the scientific skills to be an informed citizen

Year 10 Survival Top Tips	
Tip 1	Learn and revise vocabulary weekly, use glossaries given and - Quizlet/Seneca/Educake
Tip 2	Use ' Youtube- e.g. myGCSE, MrExham to help review key skills and concepts
Tip 3	Use GCSE Bitesize/Kerboodle resources/past OCR questions
Tip 4	Use the Pixl Resources on Firefly & therapy questions
Tip 5	Read online science news, watch science documentaries

OCR
Oxford Cambridge and RSA

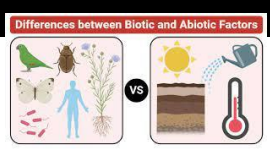
Move on to Year 11

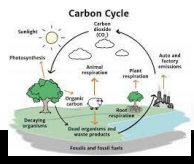
Next Level

YEAR 10

B4 Community level systems:

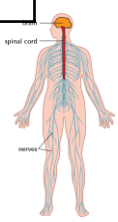
B4.1 Ecosystems
- ❑ Biotic & Abiotic factors
- ❑ Competition & interdependence
- ❑ Trophic levels
- ❑ Decomposition
- ❑ Water, Carbon & Nitrogen cycles





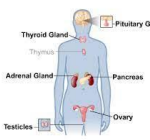
B3 Organism level systems:

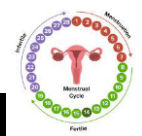
B3.1 Co-ordination & control
- ❑ The nervous system
- ❑ Reflexes
- ❑ PAG-reaction times



B3 Organism level systems:

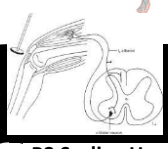
B3.2 Co-ordination & control
- ❑ The endocrine system
- ❑ Menstrual cycle
- ❑ Contraception
- ❑ Fertility





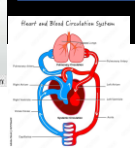
B3 Organism level systems:

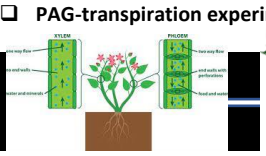
B3.3 Maintaining internal environments
- ❑ Homeostasis
- ❑ Blood glucose control
- ❑ Diabetes

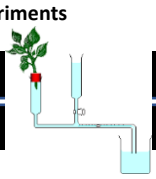


B2 Scaling Up:

B2.2 The challenges of size
- ❑ Exchange surfaces & transport systems
- ❑ Surface area: volume ratio
- ❑ Human circulatory system
- ❑ Plant transport
- ❑ PAG-transpiration experiments

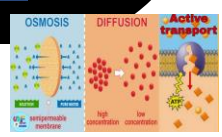


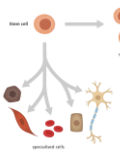


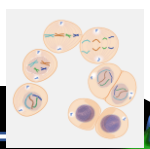


B2 Scaling Up:

B2.1 Supplying the Cell
- ❑ Transport into & out of cells; diffusion, osmosis & active transport
- ❑ Mitosis
- ❑ Cell differentiation
- ❑ Stem cells







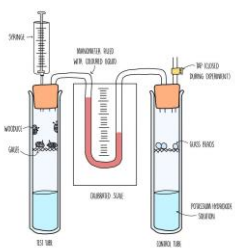
YEAR 10

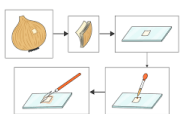
B1 Cell level systems:

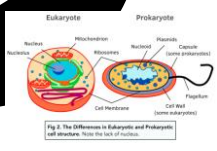
B1.3 Respiration
- ❑ Key biomolecules
- ❑ Aerobic v anaerobic respiration
- ❑ PAG –Respiration experiments

B1 Cell level systems:

B1.4 Photosynthesis
- ❑ Photosynthesis
- ❑ Limiting factors
- ❑ Inverse square law
- ❑ PAG –Photosynthesis experiments

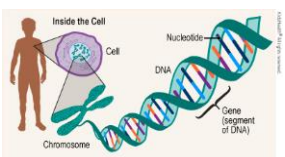


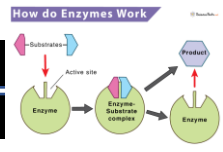


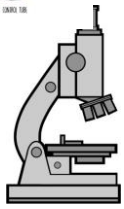


B1 Cell level systems:

B1.2 What happens in cells
- ❑ DNA
- ❑ Protein synthesis
- ❑ Enzymes
- ❑ PAG- Enzyme reactions







Review of prior knowledge
B1 Cell level systems:

B1.1 Cell structure
- ❑ Eukaryotic v prokaryotic cells
- ❑ Microscopy
- ❑ PAG-Making slides
- ❑ Magnification

YEAR 10

CURRICULUM OVERVIEW

Development of key scientific skills: planning valid experiments, carrying out practicals safely, displaying & processing data, as well as analysing & evaluating results

Possible careers

Research scientist Biologist Doctor Nurse Forensic scientist Ecologist Farmer Athlete Nutritionist Sports scientist Personal trainer Biochemical engineer Civil Engineer Paramedic CSI Police officer and many more!!

CURRICULUM OVERVIEW