

# Yr10 Revision checklist

## June 2023

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**AQA Biology Separate Trilogy (10JS1, JS2, TS1, TS2)**

Paper 1 = 1hr 45 mins.

**AQA Combined Science Trilogy: Biology Higher (10JC1, JC2, TC1, TC2)**

Paper 1 = 1hr 15mins

**AQA Combined Science Trilogy: Biology Foundation (10JC3, TC3)**

Paper 1 = 1hr 15mins

### Ways to revise:

- **SEE FIREFLY TASK SET BY YOUR BIOLOGY TEACHER FOR SPECIFIC HELP.**
- Use your revision guide.
- Do not forget your exercise book from year 9 and booklets from year 10.
- Traditional mind maps/spider diagrams/flash cards.
- Get your parents/someone at home to quiz you/quiz your parents!

Y9 Topic	Content:	Revised?	Confidence?
Cell Structure	Microscopes/Magnification (MATHS) <b>(REQ PRAC) – which objective lens first and why</b>		
	Animal/Plant Cell Structures		
	Eukaryotic/Prokaryotic cells		
	Specialised animal & plant cells		
Cell Transport	Diffusion		
	<b>Osmosis (REQ PRAC)</b> <b>Variables –</b> <b>controlled/independent/dependent</b> <b>Calculating % change</b>		
	Active Transport		
	Efficient Exchange Surfaces		
	Surface area:volume ratio		
Cell Division	DNA/Genes/Chromosomes		
	DNA structure		
	Cell Cycle (Mitosis)		
	Meiosis		
Biochemistry	Chemistry of Food (Bio Molecules) Carbohydrates/Lipids/Proteins <b>Food tests (REQ PRAC)</b>		
	Enzymes & Catalysts		
	<b>Factors affecting enzymes (REQ PRAC)</b>		

<b>Y10 Topic:</b>	<b>Content:</b>	<b>Revised?</b>	<b>Confidence?</b>
Human Biology	Tissues & Organs		
	Digestive System		
	Digestive Enzymes		
	Bile in digestion		
	The Blood		
	Blood vessels		
	The heart		
	Helping the heart		
	Breathing & gas exchange		
	Aerobic respiration		
	Anaerobic respiration (animals/plants/microorganisms)		
	Response to exercise Breathing rates <i>Oxygen debt – what this is and how to pay it off.</i>		
	Metabolism & the liver		
	Human Disease	Health & disease	
Pathogens (x4) & disease			
<b>Growing Bacteria &amp; Preventing Bacterial growth (REQ PRAC)</b>			
Preventing infections			
Bacterial (Salmonella/Gonorrhoea)			
Viral (TMV/HIV/Measles)			
Fungal (RBS) & Protist (Malaria)			
Human defence (skin/WBCs/mucus/cilia/HCl)			
Vaccinations			
Antibiotics & Painkillers			
Discovering drugs (foxglove/willow)			
Developing Drugs (Trials)			
<i>Making Monoclonal antibodies</i>			
<i>Using monoclonal antibodies</i>			
Cause/Correlation (lots of graphs/data here)			
Cancer (benign/malignant)			
Smoking & risks			
Diet/Exercise/Health			
Alcohol & Carcinogens			
Growth & Differentiation			
Stem Cells & Ethics			

Plant Biology	Plant tissues & organs		
	Transport in plants (xylem/phloem)		
	Evaporation & Transpiration		
	Factors affecting transpiration		
	Equation & Leaf adaptations		
	<b>Rate of photosynthesis pondweed practical (REQ PRAC)</b> <b>Controlled variables, independent &amp; dependent variables</b> <b>Improvements to the method</b> <b>Anomalies</b> <b>Conclusions from the data</b> <b>Plotting the data on a graph</b> <i>Inverse square law calculations</i>		
	How plants use glucose		
	Making the most of photosynthesis (greenhouse)		

### Key Investigation Terms to familiarise yourself with:

- Variables: independent, dependent & controlled
- A control experiment
- Valid results
- Accuracy
- Precision
- Anomalies
- Prediction

### Maths Skills to ensure you are familiar with:

- Using a calculator
- Magnification calculations
- % change
- Mean, median, range from data
- Using data from graphs
- Finding a %
- Converting units – e.g., milliseconds into seconds
- *Inverse square law (photosynthesis)*