

Biology - Separate Science (Paper 1)

Topic	Red/Amber/Green
Communicable & Non Communicable Diseases	
Pathogen Types	
The 7 Diseases	
Vaccinations	
Monoclonal Antibodies	
Plant Diseases & Defence	
Life Style Effects & Non-communicable Diseases (<u>Not</u> Cancer)	
Cells	
Cell structures	
Eukaryotic & Prokaryotic Cells	
Specialised cells	
Microscopy Calculations	
Microscopy Required Practical	
Types of Microscopes	
Specialised cells	
Stem Cells	
Mitosis	
The Digestive System	
The structure of the digestive system	
The role of enzymes in digestion	
Food tests Required practical	
Circulatory System	
The Heart Structure	
Blood Vessel Structure & Function	
Treating Circulatory Problems	
Respiration	
The respiratory system	
Aerobic Respiration	
Anaerobic Respiration	
Photosynthesis	
Photosynthesis & Limiting Factors	
Uses of Glucose	
Transpiration	
Translocation	
Cell Transport	
Diffusion	
Osmosis	
Osmosis Required Practical	
Active Transport	

Biology – Separate Science (Paper 2)

Topic	Red Amber Green
The Nervous System	
The Nervous system Basics	
Hormones	
Glands & Hormones Basics	
Plant hormones <u>not</u> uses	
Effect of Light on Seedlings Required Practical	
Homeostasis	
Homeostasis (general)	
Glucose Control	
Diabetes	
Temperature Control	
Maintaining water balance	
Removal of excess amino acids	
Ecosystems & Adaptations	
Competition (animals)	
Competition (plants)	
Ecosystems, communities, habitats	
Food chains and food webs	
Food security	
Farming techniques	
Biomass in a food chain (not pyramids)	
Biotic & Abiotic Factors	
Field Investigations Required Practical	
Carbon Cycle	
Decomposition	
Water cycle	
Pollution	
Land use	
Pollution (air, water, land)	
Global Warming	
Inheritance	
Sexual & Asexual Reproduction (<u>not</u> advantages/disadvantages)	
Meiosis	
DNA structure, genes, chromosomes	
Genetic Inheritance	
Genetic Diseases (CF, polydactyl)	

All Revision Materials are available for students on Teams: Click [here](#).