Triple Science

B2 Organisation Revision Checklist

Topic	Content	✓
Principles of Organisation and the Human Digestive System	Cells, tissues, organs and organ systems	
	The Human Digestive System	
	Enzymes	
	Lock and Key Theory	
	Action of Digestive Enzymes	
	Bile	
	Required Practical 4: Qualitative Food Tests	
	Required Practical 5: Effect of pH on the rate of reaction of amylase	
Heart, Blood Vessels and Blood	The structure and function of the human heart and lungs, the double circulatory system and adaptation for gas exchange	
	Blood vessels associated with the heart: aorta, vena cava, pulmonary artery, pulmonary vein, coronary arteries	
	Structure and function of veins, arteries and capillaries, compound measures for calculating blood flow	
	Components of blood and their function, blood cells recognising different blood cells in a photograph or diagram (under a microscope), evaluate risks associated with blood products	
Coronary Heart Disease and Health Issues	Cause of coronary heart disease, use of statins, faulty valves and their consequences, heart failure	
	Evaluate benefits and risks of treatments, including mechanical devices and transplants, replacing valves with biological or mechanical valves, donor hearts and lungs, use of artificial hearts	

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Health Issues and The Effect of Lifestyle on Non-Communicable Diseases	Health, disease, interactions between communicable and non-communicable diseases, translating disease incidence information, principles of sampling applied to epidemiological data	
	Human and financial cost of non-communicable diseases for individuals, communities, nations and globally	
	Effect of lifestyle factors on disease incidence nationally and globally: diet, alcohol and smoking	
	Risk factors, causal mechanisms between non-communicable diseases and risk factors, including examples, scatter graphs to identify correlations	
Cancer	Plant tissues: epidermal tissues, palisade mesophyll, spongy mesophyll, xylem and phloem, meristem tissue, observation and drawing transverse section of a leaf	
Plant Tissues and Organs	Transpiration: description, transpiration rates, effect of changing temperature, humidity, air movement and light intensity	
	Osmosis: importance, measuring rate of water uptake	
	Plant organ systems: structure of root hair cells, xylem and phloem, transpiration, translocation, root hair cells, xylem tissue, role of stomata and guard cells	

Classroom 42

Double Science

B2 Organisation Revision Checklist

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Principles of Organisation and the Human Digestive System	Cells, tissues, organs and organ systems	
	The Human Digestive System	
	Enzymes	
	Lock and Key Theory	
	Action of Digestive Enzymes	
	Bile	
	Required Practical 3: Qualitative Food Tests	
	Required Practical 4: Effect of pH on the rate of reaction of amylase	
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	Blood vessels associated with the heart: aorta, vena cava, pulmonary artery, pulmonary vein, coronary arteries	
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