



Lesson Plan for Lower Block (Primary 3 and 4)

Lesson	About the Unit
Unit 1 Skeletal & Muscular Systems	 Identify the ribcage, skull and backbone as major bones of the skeletal system. Identify the major muscles of the human body. Show an understanding of how muscles and bones interact with each other to bring about movement.
Unit 2 Circulatory & Respiratory Systems	 Show an understanding of how blood acts as a transport medium Recognise the heart as a pump Show an understanding of the substances that the arteries and veins transport to and from the heart. Identify the major components of the respiratory system. nose windpipe lungs Show an understanding of the circulatory system and the respiratory system and describe how they interact with each other. Show an understanding of how breathing takes place.
Unit 3 Digestive System	 Recognise the presence of herbivores, carnivores and omnivores. Classify food we eat into Carbohydrates Fats Proteins Recognise that food is broken down by digestive juices Identify components of the digestive system and state their functions mouth gullet stomach small intestine large intestine anus Recognise the liver as a component of the digestive system.





Lesson Plan for Upper Block (Primary 5 and 6)

Lesson	About the Unit
Unit 1 Skeletal & Muscular Systems	 Identify the major bones of the skeletal system and recognise that bones interact with one another at the joints (movable and immovable) Identify the major muscles of the human body and recognise that muscles work asantagonistic pairs. Show an understanding of how muscles and bones interact with each other to bring about movement (with tendons and ligaments). Identify the differences and recognise the first aid treatment of fractures sprains & strains
Unit 2 Circulatory & Respiratory Systems	 Recognise that blood contains red blood cells, white blood cells and platelets. State the function blood vessels Recognise the parts of the heart as having, 4 chambers, valves, ventricles, atrium and septum Show an understanding of oxygenated & deoxygenated blood flow State the composition of air Differentiate breathing & respiration, state the difference in inspired & expired air Identify the parts of the respiratory system nose mouth windpipe bronchi air sacs
Unit 3 Digestive System	 Show an understanding of different types of diets. State the dietary source of and explain the importance of: carbohydrates fats proteins Recognize that food is broken down by digestive juice Identify components of the digestive system and state their functions mouth gullet stomach small intestine large intestine anus Recognise the liver and pancreas as a components of the digestive system





Lesson Plan for Lower Block (Secondary 1 and 2)

Lesson	About the Unit
	a) Identify the humerus, radius, ulna and scapula.
Unit 1	b) Recognise movement in a ball-and-socket joint and the hinge joint & splinting.
Skeletal & Muscular	c) Recognise the importance of the sternum and the xiphoid process in CPR.
Systems	d) Identify biceps and triceps as muscles that work as antagonistic pairs.
	e) Show an understanding of how muscles and bones interact with each other to bring about movement using ligaments and tendons.
	 f) Identify the differences and recognise the first aid treatment of: Open and closed fractures Muscle strains
	a) Recognise that blood contains red blood cells, white blood cells, platelets and plasma.
Unit 2	b) Show an understanding of the function of blood in oxygen transport and phagocytosis.
Circulatory & Respiratory Systems	c) Identify blood vessels and understand their structure & function:
	d) Show an understanding of oxygenated & deoxygenated blood flow and the double circulation.
	 e) Recognize the parts of the heart as having, four chambers valves & septum ventricles & atrium
	- Voluntities & danum
	f) Show an understanding of the first aid treatment for bleeding and hypovolemic shock.
	g) Identify the parts (from figures and X-ray film) of the respiratory system
	 Differentiate between breathing & respiration; state the difference in inspired & expired air; gaseous exchange at the alveoli and at the capillary bed.
	 Show an understanding of the first aid treatment for respiratory emergencies such as choking, drowning, etc.





Unit 3

Digestive System

- a) Show an understanding of different types of diets with an overview of diabetes.
- b) Classify food into carbohydrates, fats and proteins and explain their dietary importance.
- c) Recognize that food is broken down by enzymes.
- d) Identify components (from figures, colonoscopy, endoscopy, etc.) of the alimentary canal (including related organs) and recognise their functions
 - Oesophagus
 - Stomach
 - Small intestine
 - Large intestine
 - Pancreas
 - Liver





Lesson Plan for Secondary Upper Block (Secondary 3 and 4)

Lesson	About the Unit
	a) Identify the humerus, radius, ulna, scapula, femur, tibia, fibula and the pelvic girdle.
Unit 1	b) Recognise movement in a ball-and-socket joint and the hinge joint & splinting.
Skeletal & Muscular	c) Recognise the importance of the sternum and the xiphoid process in CPR.
Systems	d) Identify biceps, triceps, hamstrings and quadriceps as muscles that work as antagonistic pairs.
	e) Show an understanding of how muscles and bones interact with each other to bring about movement using ligaments and tendons.
	 f) Identify the differences and recognise the first aid treatment of: Different type of fractures (Eg. open, closed, comminuted, etc.) Muscle contusion, cramps, strains, etc. Ankle sprains
	a) Recognise that blood contains red blood cells, white blood cells, platelets and plasma.
Unit 2	b) Show an understanding of the function of blood in oxygen transport, phagocytosis, antibody production, etc.
Circulatory & Respiratory Systems	c) Identify blood vessels and understand their structure & function:
	d) Show an understanding of oxygenated & deoxygenated blood flow and the double circulation.
	e) Recognize the parts of the heart as having,
	f) Recognise the cardiac cycle in terms of systole, diastole, electrocardiogram (ECG) trace and myogenic control.
	g) Show an understanding of the first aid treatment for bleeding and hypovolemic shock.
	 h) Identify the parts (from figures and X-ray film) of the respiratory system nose mouth trachea bronchi alveoli





	 i) Differentiate between breathing & respiration; state the difference in inspired & expired air; gaseous exchange at the alveoli and at the capillary bed. j) Show an understanding of the first aid treatment for respiratory emergencies such as choking, drowning, etc.
Unit 3	Show an understanding of different types of diets with an overview of diabetes and hypercholesterolemia.
Digestive System	b) Classify food into carbohydrates, fats, proteins, vitamins & minerals and explain their dietary importance. c) Recognize that food is broken down by enzymes. d) Identify components (from figures, colonoscopy, endoscopy, etc.) of the alimentary canal (including related organs) and recognise their functions Oesophagus Stomach Small intestine Large intestine Pancreas Liver e) Role of the liver and liver diseases.