

Qualification Unit

This unit forms part of a regulated qualification.

Unit Title: Human Physiology

Unit Reference Number: K/618/3228

Level: Level Two

Credit Value: Six (6)

Minimum Guided Learning Hours: 48

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Understand the organisation of the body	1.1 Identify the levels of organisation in the human body
	1.2 Name the main body systems
2. Understand the role of the cardiovascular system	2.1 Identify these main parts of the circulatory system: <ul style="list-style-type: none"> a) Left/right Atrium b) Left/right ventricle c) Aorta d) vena cava e) pulmonary artery f) pulmonary vein g) coronary artery
	2.2 Describe how blood transports oxygen and carbon dioxide
	2.3 Explain how the structure of these vessels relates to their functions: <ul style="list-style-type: none"> a) Artery b) Vein c) Capillary
	2.4 Identify the main components of blood: <ul style="list-style-type: none"> a) Plasma b) White blood cells c) Red blood cells d) Platelets

	2.5 Describe the function of each blood component and describe how they are adapted for this
3. Know about the structure and functions of the digestive system	3.1 Identify the main organs of the digestive system and describe their function
	3.2 Describe the role of the main components of a balanced diet
	3.3 Describe the effects of nutritional deficiencies on health
	3.4 Describe the process of peristalsis
	3.5 Outline how carbohydrates, fats and proteins are broken down during digestion
	3.6 Describe the process of absorption
4. Know about the human breathing system	4.1 Identify: <ul style="list-style-type: none"> a) Trachea b) Bronchi c) Alveoli d) Capillary network surrounding alveoli
	4.2 Outline the mechanism of breathing and how gases are exchanged in the lungs
5. Know about the human breathing system	5.1 Outline the key concepts of a) Nervous coordination in humans b) Hormonal control in humans
	5.2 Identify the basic structure of the nervous system and state its function
	5.3 Describe the structure and function of a reflex arc
6. Know about the hormonal system	6.1 Give a simple definition of homeostasis
	6.2 Explain homeostasis of: <ul style="list-style-type: none"> a) Blood glucose b) Body temperature c) Water levels

6.3 Identify the main hormonal glands:

- a) Pituitary gland
- b) Pancreas
- c) Thyroid
- d) Adrenal gland
- e) Ovary
- f) Testes

6.4 Describe the role of insulin and glucagon in the control of blood glucose

6.5 State the roles of thyroxine and adrenaline

6.6 Describe the function of the main female reproductive hormones and their role in:

- a) Contraceptives
- b) Fertility Treatment