

Body System Posters: Create a poster illustrating and describing the following. Make sure to include the vocabulary listed.

Nervous System

Describe parts of neuron.

Describe how nerve impulse is transmitted

Divisions & functions of central and peripheral nervous system

Vocabulary: neuron, axon, dendrites, neurotransmitter, synapse, cell body

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Skeletal System

Describe functions of bone.

Illustrate and describe the type of skeletal joints and give an example of each

Describe the role of cartilage and ligaments

Draw, label, and describe a longitudinal-section of bone.

Vocabulary: ossification, cartilage, Haversian canals, periosteum, bone marrow, ligaments, compact and spongy bone

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Muscular System

Describe how bones and muscles interact.

Describe types of muscle tissue

Describe how muscles contract and work in pairs.

Describe the sliding filament theory

Vocabulary: myosin, actin, crossbridges, tendons,

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Integumentary System

Describe the function of skin.

Draw, label, and describe the structure

Describe how skin works to keep body's temp stable.

Vocabulary: epidermis, keratin, melanin, dermis, hair follicle, sweat gland, negative feedback loop

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Circulatory System

Describe parts and of circulatory system.

Describe 3 types of vessels

Describe parts of heart and path blood flows through

Describe parts and functions of the blood

Vocabulary: pulmonary, systemic, atrium, ventricle, atherosclerosis

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Respiratory System

Draw, label, and describe the structure of lungs.

Describe how air enters and exits the lungs

Describe how oxygen and carbon dioxide exchange occur

Vocabulary: pharynx, trachea, cilia, mucus, diaphragm, alveoli, bronchi, bronchioles

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Digestive System

Describe needed nutrients including 5 vitamins and 5 minerals

Draw and describe the path food takes: name of organ, chem/mech digestion, type of food broken down, 1 extra comment per organ

Describe roll of accessory organs, liver and pancreas

Vocabulary: peristalsis, villi, bile, chemical digestion, mechanical digestion, lipid soluble

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Excretory System

Draw, describe the parts

Describe the functions of this system.

Describe how kidney works

Vocabulary: kidney, ureter, nephron, filtration, reabsorption, bladder

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Endocrine System

Draw, describe the types and functions and locations of different glands in body.

Describe how steroid and nonsteroid hormones work

Vocabulary: hormone target cell, exocrine gland, endocrine gland, hypothalamus, metabolism, negative feedback and positive feedback loops

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Immune System

Draw, describe the parts and function of immune system.

Describe the body's nonspecific defenses and specific defenses and how they work.

Vocabulary: Immunity, inflammatory response, interferon, antigen, antibody