ANATOMY 2 LEARNING TARGETS

NERVOUS SYSTEM

Huh??	Pretty Good	Got it!!	Learning Target:		
	0000	2000	1. Distinguish between the parts of the central nervous system and the peripheral nervous		
			system.		
	2. Identify the neuron as the basic structural and functional unit of the nervous system.				
		3. Distinguish between the function of a dendrite and an axon.			
			4. Distinguish between a sensory and motor neuron.		
			5. Name the four (4) "protectors" of the central nervous system and give the functions of		
			each.		
			6. Locate the following regions of the brain using charts, diagrams, and models: A. cerebrum		
			A. cereorum B. cerebellum		
			C. midbrain		
			D. pons E. medulla		
			7. Give two (2) functions of each of the following: A. cerebrum		
			B. cerebellum		
			C. medulla		
			D. hypothalamus 8. Describe the spinal cavity as to the following:		
			A. where the spinal cord ends.		
			B. meninges.		
			C. cerebrospinal fluid.		
			9. Identify the two (2) functions of the spinal cord.		
			10. Name the three (3) layers of the meninges.		
			11. Describe a simple reflex action.		
			12. Identify the parts of the peripheral nervous system.		
			13. Explain the main function of the autonomic nervous system.		
			14. Distinguish between the sympathetic and parasympathetic divisions of the autonomic		
			nervous system.		
			15. Name the senses associated with the cranial nerves.		
			16. Identify the total number of cranial nerves and give the function of each of the following:		
			A. olfactory		
			B. optic		
			C. auditory		
			D. vagus		
			17. Identify the total number of spinal nerves that originated from the spinal cord.		
			18. Identify the main function of the peripheral nerves.		

ENDOCRINE SYSTEM

Huh??	Pretty	Got	Learning Target:			
	Good	it!!				
			1. Name two (2) functions of the endocrine system.			
			2. Discuss the interrelationships of the endocrine and nervous system.			
			. Describe hormones and how they function.			
			4. List and be able to locate the endocrine glands known to secrete hormones:			
			A. pituitary			
			B. thyroid			
			C. parathyroid			
			D. adrenal			
			E. Islet Cells of Pancreas			
			F. gonads			
			5. Name the hormone or hormones secreted by each of the following and identify their main			
			function.			
			A. pituitary			
			B. thyroid			
			C. parathyroid			
			D. adrenal			
			E. Islet Cells of Pancreas			
			F. gonads			
			6. Name and locate the endocrine glands about which little is known:			
			A. Thymus			
			B. pineal body			
			7. Explain negative feedback system.			

CIRCULATORY SYSTEM

Upon completion of this unit, the student will be able to:

Huh??		Got	Learning Target:	
	Good	it!!		
			1. Identify the five (5) major functions of the circulatory system.	
			2. Name the three (3) formed elements of blood (cells) and give the functions of each.	
			3. Identify the three (3) main constituents of plasma and explain why it can be given without a	
			type and crossmatch.	
			4. Name the five (5) essential substances needed for the blood clotting mechanism.	
			6. Give the normal range for red blood cells, white blood cells, and hemoglobin.	
			6. List the four (4) types and discuss the importance of the type and crossmatch prior to the	
			blood transfusion.	

CIRCULATORY SYSTEM: The Heart

Huh??	Pretty	Got	earning Target:		
	Good	it!!			
			1. Name the four (4) chambers of the heart.		
			2. Identify the three (3) layers of the heart.		
			A. endocardium		
			B. myocardium		
			C. pericardium		
			3. Name the four (4) great vessels of the heart and identify the source and destination of the flow of blood.		
			4. Trace the flow of blood as it circulates through the heart, beginning with the vena cava and ending with the aorta: A. right heart pump 1. inferior and superior vena cava 2. right atrium 3. tricuspid valve 4. right ventricle 5. semilunar valve 6. pulmonary artery 7. lungs B. left heart pump 1. pulmonary veins 2. left atrium 3. bicuspid or mitral valve 4. left ventricle 5. semilunar valve 6. aorta 7. coronary arteries 8. body		
			5. Discuss the origin of the heartbeat.		
			6. Explain the influence of the nervous system upon regulation of the heartbeat.7. Describe briefly the conduction of electrical impulses that cause the heartbeat:		
			A. S.A. Node (pacemaker)		
			B. A.V. Node		
			C. Bundle of His		
			D. fibers		
			E. contraction of ventricles8. Explain what is happening with the heart according to the "lub-dub" sounds.		

CIRCULATORY SYSTEM: The Vessels

Upon completion of this unit, the student will be able to:

Huh??	Pretty	Got	Learning Target:
iiuii	Good	it!!	Learning Turger.
	3004	1000	1. Describe the structure and function of each of the following blood vessels:
			A. arteries
			B. veins
			C. capillaries
			2. Distinguish between the blood vessels of the distribution and collection routes.
			3. Describe briefly the special names given to the blood circulation of various parts of the
			body:
			A. systemic circulation
			B. coronary circulation
			C. pulmonary circulation
			D. portal circulation
			E. cerebral circulation
			F. renal circulation
			4. Locate the following major arteries of the body by using charts, diagrams, and models:
			A. ascending aorta
			B. descending aorta
			C. common carotid
			D. temporal
			E. brachial
			F. radial
			G. femoral
			H. popliteal
			I. dorsalis pedis
			5. Locate the following major veins of the body by using charts, diagrams, and models:
			A. superior vena cava
			B. inferior vena cava
			C. jugular
			D. great saphenous
			E. basilic

CIRCULATORY SYSTEM: Lymphatic System

Huh??	Pretty	Got	Learning Target:			
	Good	it!!				
			1. Identify the four (4) functions of the lymphatic system.			
			. Identify the function of each of the following:			
			A. lymphatic vessels			
			B. lymph nodes (glands)			
			C. lymphatic ducts			
			D. lymph			
			3. Locate the spleen and identify its function.			
			Locate the areas of the "lymph nodes" or "lymph glands."			

HUMAN REPRODUCTION: Male Reproductive System Upon completion of this unit, the student will be able to:

Huh??	Pretty	Got	Learning Target:		
	Good	it!!			
			1. Locate and identify the functions for each of the following using diagrams, models or the		
			human torso:		
			A. external genitalia		
			1. scrotum		
			2. penis		
			B. gonads (testes)		
			C. ducts of male reproductive system		
			1. epididymis (2)		
			2. vas deferens (2)		
			3. ejaculatory duct (2)		
			4. urethra (1)		
			D. accessory structures		
			1. seminal vesicle (2)		
			2. bulbourethral glands (2)		
			3. prostate gland (1)		
			2. Trace the flow of sperm from the testes to the urethra.		
			3. Explain the function of the male hormone "testosterone."		

HUMAN REPRODUCTION: Female Reproductive System

Upon completion of this unit, the student will be able to:

Huh??	Pretty Good	Got it!!	Learning Target:			
			1. Locate and identify the functions for each of the following using diagrams, models or the			
			human torso:			
			A. external genitalia (vulva)			
			B. gonads (ovaries)			
			C. internal organs			
			1. fallopian tubes			
			2. uterus			
			3. vagina			
			D. accessory structures			
			1. breasts (2)			
			2. Bartholin glands (2)			
			2. Explain the menstrual cycle.			
			3. Explain the role of the pituitary gland in the production of the male and female sex			
			hormones.			
			4. Identify the functions of the female hormones:			
			A. estrogen			
			B. progesterone			
			5. Trace the route of an unfertilized ovum from the ovary to the vagina.			

HUMAN REPRODUCTION: Conception

Huh??		Got	Learning Target:	
	Good	it!!		
			1. Explain how the sex of a new life is determined.	
			Identify how certain characteristics (traits) are passed from parents to offspring.	
			. Discuss briefly the development of a new life.	
			4. Discuss at least five (5) factors that affect the fertility of the male and female.	

SENSE ORGANS: The Eye Upon completion of this unit, the student will be able to:

Huh??	Pretty	Got	Learning Targ	get:	
	Good	it!!			
			1. Identify the	e following structure of	the eye:
			A.	Iris	E. vitreous humor
			B.	Pupil	F. optic nerve
			C.	Lens	G. conjunctiva
			D.	aqueous humor	
			2. Identify an	d list the function of the	three (3) layers of tissue that form the eyeball:
			A.	sclera and cornea	
			B.	choroid	
			C.	retina	
			3. List the fur	nction of the following s	tructures of the eye:
			A.	Iris	F. vitreous humor
			B.	Pupil	G. optic nerve
			C.	Conjunctiva	H. ciliary muscle
			D.	Lens	I. cornea
				aqueous humor	
			4. Describe th	ne flow of aqueous humo	or and identify the condition that is caused by its
			disruption.		
			5. Name the v	vitamin that prevents nig	ght blindness.
			6. Explain the	e process of vision.	

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SENSE ORGANS: The Ear

Huh??	Pretty	Got	Learning Target:	
	Good	it!!		
	1. Identify the following structures of the ear:		1. Identify the following structures of the ear:	
			A. external ear	
			1. auditory canal	
			2. tympanic membrane (eardrum)	
			3. pinna	
			B. middle ear	
			1. malleus (hammer)	
			2. incus (anvil)	
			3. stapes (stirrup)	
			C. oval window	
			1. Eustachian tube	
			D. inner ear	
			1. cochlea	
			2. semicircular canals	
			3. vestibule	
			4. auditory nerve (acoustic)	
			E. organ of Corti	
			2. List the functions of the three (3) parts of the ear:	
			A. external ear	
			B. middle ear	
			C. inner ear	
			3. Explain the disadvantage of having the nasopharynx connected to the middle ear by way	
			of the Eustachian tube.	
			4. Name the fluid found in the inner ear.	
			5. Explain the process of hearing.	