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> Materia: Ingles III PAREDUCAR

Nombre del trabajo: Mapa conceptual del tema: "THE HUMAN BODY SYSTEM"

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SKELETAL SYSTEM	Our skeleton consists of all our bones, teeth, cartilage, and Some bones protect our internal organs. Some bones pro- framework for the body (just as the spokes of an umbrella framework). Some bones contain red marrow that produce cells and yellow marrow that also stores fat.	c, and joints. provide a rella provide a duces blood Cartilage Cartilage is softer than bones and is somewhat flexible, like rubber. Cartilage (shown here in white) connects the ribs to the sternum, allowing the ribs to move as we breathe. Cartilage supports our nose and outer ears. Joints contain some cartillage. Much of an infant's skeleton consists of cartillage, which is gradually replaced by bone.		
MUSCULAR SYSTEM	Tendons attach one end of the biceps and triceps to the should and the other end to the radius or ulna. Each muscle can pull, bu cannot push. That is why two muscles are needed to bend the a back and forth at the elbow	er blade Skeletal muscle These muscles attached to bones. They are also 'voluntary muscles' because we consciously contract them.	are o called can Smooth muscle These are foun walls of the digestive tract, urina arteries, and other internal orga are 'involuntary muscles' becau not consciously control them.	
DIGESTIVE SYSTEM	Every cell in our body does work. Work requires energy, which is supplied by the food we eat. Food also supplies the small molecules that are the buildir blocks for cell maintainance, growth, and function. Through respiration we exchange gases with our environment. Our cells require a continuous supply of oxygen (O <sub>2</sub> ) in order to obtain energy from food molecules. Cells would also die if they were not able to get rid of the carbon dioxide (CO <sub>2</sub> ) they produce.	Digestion breaks down food into materials the body can use: The 3 Processes of Gas Exchan 1. In our lungs, O <sub>2</sub> passes from the air into passes from our blood into the air. Some released into the air. 2. Our circulatory system transports O <sub>2</sub> ar the parts of our body. Haemoglobin moleo cells transport O <sub>2</sub> . 3. Cells take up O <sub>2</sub> and release CO <sub>2</sub>	<ol> <li>Your sense receptors work together with you to make you hungry. Saliva increases (you promore than 1 litre/day), and helps digest food with mechanically torn, cut, crushed, and ground in mouth.</li> <li>The passages of your digestive system are with involuntary muscles that contract in waves squeeze food along.</li> <li>Your stomach stores food so that you need continously. It also breaks down food with acid enzymes.</li> <li>The lungs are sacs recontaining a dense la the smaller bronchio travels through this results in our red blood</li> </ol>	
CIRCULATORY SYSTEM	The circulatory system transports respiratory gases, nutrient molecules, wastes, and hormones throughout the body. These materials are carried by an intricate network of blood vessels, which follow continuous circuits from the heart through arteries, capillaries, and veins back to the heart. The circulatory system also regulates our body temperature.	The heart pumps the blood to keep it ci made of cardiac muscle, which is relaxe enters the atria and ventricles. Then there is a slight contraction of the of the heart, which forces more blood in The main heart muscles (at the bottom contract to force blood out of the ventric prevent blood from going back into the	rculating. It is ed when blood muscles at the top nto the ventricles. of the heart) cles. One-way valves atria. Valves automatically c pushes in the wrong di sounds like ludup, lubo lub comes from blood pushing against (and c the atria. The dup com valves snapping shut a out of the ventricles. V are found in} some vei system, as well as in the	

THE HUMAN BODY SYSTEM

ım, The ma pas	n, made of vertebrae, One vertebra, The spinal cord passes through this hole				
ound in the		Cardiac muscle These are the muscles			
rinary bladd	er,	of the heart. Their contraction is			
rgans. They	$\prec$	involuntary and continues in a			
ause we do		coordinated rhythm as long as we live.			
your brain produce d while it is d in your do so		WALLOWING hen swallowing, muscles move the epiglotis down to use the opening to the trachea, so that food and drink not enter the lungs. The soft palate also moves up, that food does not go up the nasal passage.			
re lined Th ves to Ev sh ho sta		The stomach does not have one fixed shape reryone's internal organs are slightly different. The ape and position of your stomach also depends on w much food it contains, and whether you are anding or lying down.			
acid and					

es made of pleural membranes, e lattice of tubes: bronchi, and hioles. When we inhale air, it is network and fills the tiny air i. That is where gas exchange capillaries takes place.

y close when blood direction. Your heartbeat ubdup, lubdup. The sound of in the ventricles d closing) the AV valves to omes from the semilunar at after blood is forced Valves similar to these yeins, and in the lymphatic in the heart.



White blood cells in the lymphatic system fight disease The immune response: lymphocytes are white blood cells that defend the body from viruses, bacteria, and even cáncer cells. These invaders are neutralised when their antigens (proteins on their surfaces) are recognized by antibodies made by T-cells and B-cells (types of lymphocytes). The inflammatory response: damaged cells release chemicals that signal blood vessels to dilate and release fluid and white blood cells such as macrophages, which attack any foreign body.

The brain is the site of consciousness. It produces thoughts, feelings, memory, and creativity. It monitors and controls our unconscious and well as conscious actions. The brain is an exceedingly complex organ, made up of billions of interconnected and interacting nerve cells. An intricate network of blood vessels bring a constant supply of

## The Pituitary Gland

The pituitary gland, located in the brain, produces hormones that regulate hormones produced by other glands. It also produces several different hormones that regulate bone and muscle growth, body changes at puberty, the menstrual cycle, child birth, lactation, water retention in the kidneys, and the male sexual response.

## Why do we drink water?

Our body is about 70% water. Some parts are more or less watery: the grey matter of the brain is about 85% water; fat cells contain only about 15% water. A person normally takes in between 1.5 and 3.5 litres of water each day (in both food and drink), depending on how hot and dry the weather is. Obviously we cannot keep accumulating all that water our body gets rid of the same amount of water as it ingests.