NAME:	DATE:	BLOCK:	Brain – Controls voluntary behaviors (walking, thinking) as
GUIDED	NOTES: THE NERVOUS	S SVSTFM	well as involuntary responses (heartbeat).
(Textbook Section B4.1, pages B101-B107)			Spinal Cord – The main for connecting the brain and the nerves throughout the body. It is
spinal cord, sensory	<u>M</u> - The nervous system co	that	protected and supported by the spinal column (vertebral column) which is made up of small bones called "vertebrae."
organs are responsi	ns with the rest of the body. ble for the control of the boong its parts. (From innerbo	dy and	The spinal cord has pairs of nerves which transmit impulses (electrical messages) to and from the brain.
In order to maintainand to survive, your body must constantly monitor the environment in which you live.			Peripheral Nervous System – "The part of the nervous system that lies the brain and spinal cord."
This is accomplished through your <u>organs</u> , which can detect a specific type of change in the environment. Your brain interprets the changes and instructs the body to react.			The PNS contains both <u>sensory</u> and <u>motor nerves</u> . It carries signals to and from all muscles, glands, and other internal organs. Carries both voluntary and involuntary responses.
YOUR FIVE SENSES: SIGHT, HEARING, SMELL, TASTE, TOUCH			Sensory Nerves — Nerves that receive information from thet through the five
SENSE	SENSE OR	GAN	senses.
Sight			Motor Nerves – Send signals to your
Hearing			that allow your body to move.
Smell			
Taste Touch	(sens	ory receptors)	Autonomic Nervous System – "The part of the nervous system
Stimulus – Something that causes a in an organism or a part of the body.			that controls involuntary () action and responses." (Heart, the smooth muscles in the stomach, intestines, glands, etc. )
<u>Central Nervous System</u> – "The and The CNS communicates with the			Main functions of the Autonomic Nervous System:
rest of the nervous system through electrical signals that are sent to and from" The CNS receives and			o (1) Conserve and store energy
processes information from the Peripheral Nervous System.			o (2) Respond quickly to changes.
Neuron – "A nerve cell."			Includes the "Fight or Flight" response to danger.

## **MEMORY**

## The main types of memory: Sensory, Short-Term, Long-Term

- Sensory Lasts less than one second
   can become ↓
- Short-Term Lasts less than one minute can become ↓
- Long-Term Lasts a long time, maybe forever"

## Check out these links:

http://demo.chiromatrix.com/3d spine/nerve chart/index.htm? ga=1.419067 22.1454327544.1399985457

http://www.livescience.com/22665-nervous-system.html

http://www.newscientist.com/special/tactile-illusions

http://www.illusions.org/

http://www.doctoroz.com/videos/reflexology-foot-chart

http://relievepain.files.wordpress.com/2009/05/back.jpg?w=525&h=1024

http://www.nbcnews.com/feature/nerdwatch/researchers-map-brain-through-video-games-n64166 and http://blog.eyewire.org/about/

