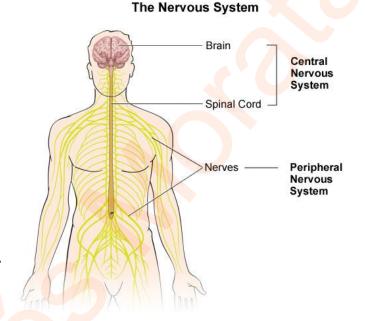


# 4th GRADE MINIMUM CONTENTS- NATURAL SCIENCE UNIT 6: THE NERVOUS SYSTEM

#### ► THE NERVOUS SYSTEM

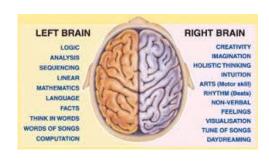
The nervous system is formed by the central nervous system and the peripheral nervous system. The brain and the spinal cord form the control centre known as the central nervous system where information is evaluated and decisions made. The peripheral nervous system consists of nerves.



#### THE BRAIN

The **brain**, a soft, wrinkled organ that weighs about 3 pounds, is located inside the cranial cavity, where the bones of the skull surround and protect it.

The brain is divided into two identical parts called cerebral hemispheres. Each hemisphere has specific functions. For example, the left hemisphere uses language and symbols. The right hemisphere sees the images in the imagination.



The brain, the seat of higher mental functions such as consciousness, memory, planning, and voluntary actions, also controls lower body functions such as the maintenance of respiration, heart rate, blood pressure, and digestion.



#### ► THE SPINAL CORD

The spinal cord is a bundle of nerves that connects the brain to other parts of the body. It is protected by the spinal column. The spinal cord begins at the base of the brain, high in the neck, level with the first cervical vertebra. It terminates between the first and second lumbar vertebrae, low in the back.

### ► NERVES

Nerves send the information to the brain for interpretation and bring us a rapid response.

There are two types of nerves:

- Sensory nerves carry impulses from sensory receptors towards the brain.
- Motor nerves carry impulses away from the brain to muscles and other parts of the body.

## ► LOOK AFTER YOUR NERVOUS SYSTEM

Sometimes it is very difficult to concentrate due to the nervous fatigue.

You can help your nervous system work well and be healthy by being active, having a healthy diet and keeping yourself busy and happy.

- Exercise releases a chemical, called serotonin, in the brain which makes you feel good, relaxes muscles and gets rid of stress.
- Good food gives your body the vitamins and minerals needed to build healthy nerves and tissue. Make sure that your diet contains lots of fresh fruit, vegetables and milk. Don't drink coffee or soft drinks.
- Sleep ten hours a day.



# UNIT 6:THE NERVOUS SYSTEM ACTIVITIES

1.-Find words related to the nervous system. Then, use the words to complete the text.

alejperipnerainervoussystemrosabraincomotornerveserespinaicoraser	nsoryner	vescentr	ainervoussys	stemare

The nervous system is formed	d byand
	and theand the
form the central	nervous system. The
consists of	
and	
2Read the sentences and	write T( true) or F (false)
a. The brain is divided into tw	o different parts
b. The brain is located inside	the cranial cavity
c. The brain does not control	the digestion
d. The brain is a soft organ	
3Match.	
a. Motor nerves	1. Carry impulses from sensory receptors
b. The spinal cord	2. Carry impulses away from the brain
c. Sensory nerves	3. A bundle of nerves
d. The brain	4. A soft organ



5Complete with: the br the central nervous system		
6 Complete your bilingu		
- The central nervous	THE NERVOUS SYSTEM	
system:	- The peripheral nervous system:	- The brain:
- Cerebral hemisphere:	- The spinal cord:	-Nerves: - Nervous fatigue:
	- Motor nerves:	