

Name:			
Class:			

WORKSHEET

5.1 The central nervous system

Using	Chapter !	5 of Human Perspectives	Units 3 & 4 ATAR,	complete the	following activities.

1 Explain the difference between grey matter and white matter.

2 Compare the location of grey and white matter in the brain with their location in the spinal cord.

- **3** The white matter of the brain is made up of bundles of myelinated nerve fibres called tracts.
 - a What is myelin?

b What is a nerve fibre?

c List the three types of tracts in the white matter of the brain.



4	Sketch a diagram of the brain showing the cerebrum, cerebellum, medulla oblongata, pituitary gland and
	hypothalamus.

5 Complete the following table to summarise the functions of the major parts of the brain.

Part of brain	Function
Cerebrum	
Cerebellum	
Hypothalamus	
Medulla oblongata	

6 Make a sketch of part of the cerebrum to show the difference between a convolution (gyrus), a sulcus and a fissure.



7 There are three types of functional areas in the cerebral cortex of the brain: sensory, motor and association. In the table below, summarise the differences between them.

	Sensory areas	Motor areas	Association areas
Function			
Location in			
cerebral cortex			

9 Describe how both the brain and spinal cord are protected from injury. Why is it so important that these organs remain injury free?

10 Describe the structure of the spinal cord and use a diagram to illustrate your description.