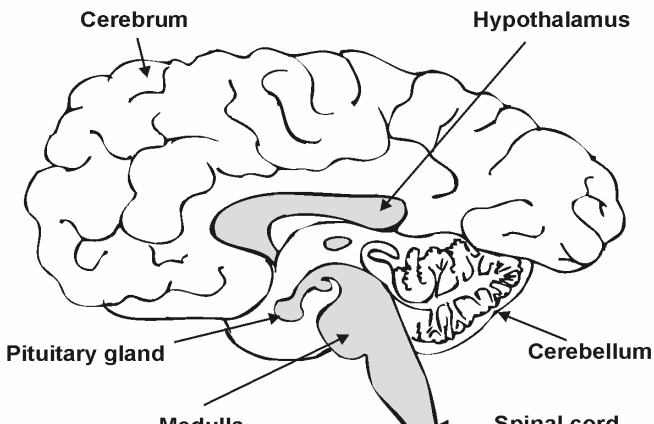


Intermediate 2 Biology - Unit 3: Mammalian Physiology
Chapter 15 - Brain and Nervous System

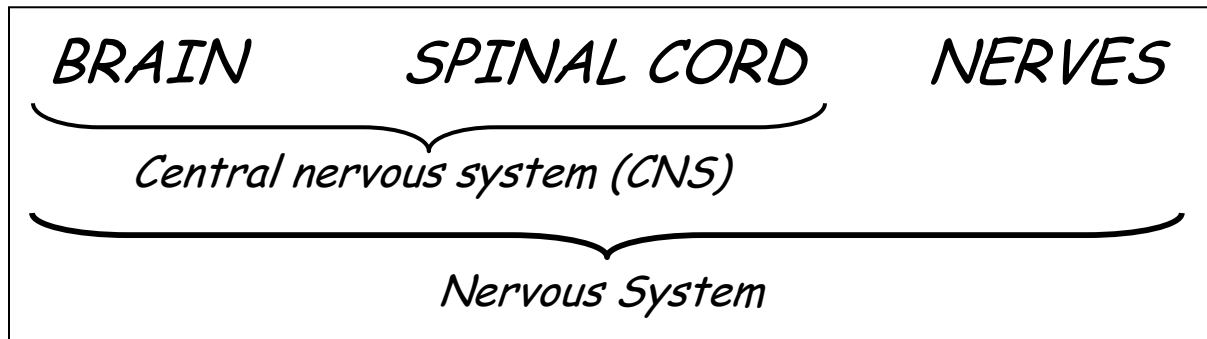
The Brain

The brain is composed of several distinct parts. Each part of the brain performs a separate function.

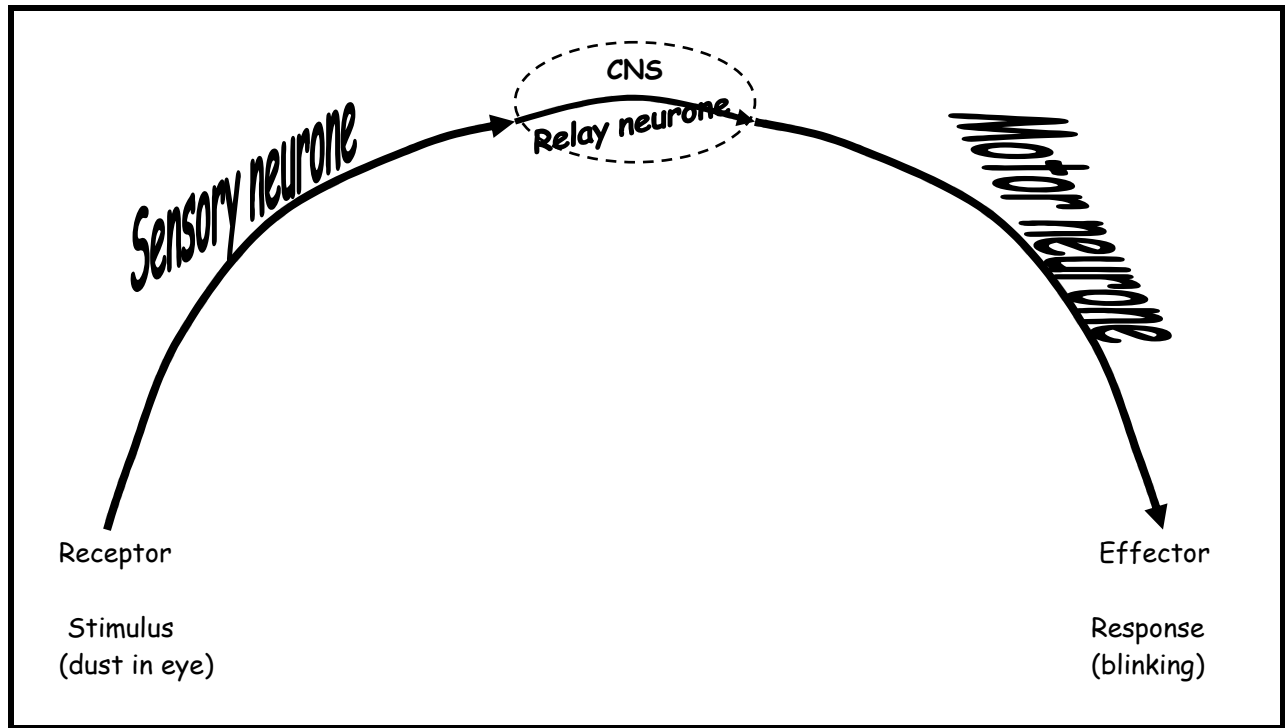
	<p style="text-align: center;"><u>Functions</u></p> <p>Cerebrum - reasoning & thinking Cerebellum - balance & co-ordination Hypothalamus - regulates water balance & body temperature Medulla - controls breathing and heart rate Pituitary gland - production of ADH</p>
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The cerebrum consists of several discrete areas, each performing their own distinct function. Two areas are the motor area (controlling movement) and the sensory area (receives information from sense organs).

The Nervous System



The reflex arc is shown below. The reflex arc shows how a stimulus is detected, transmitted and responded to by the nervous system. In this example the stimulus is dust in the eye and the response is blinking. *Note the order of the neurones involved!*



REFLEX ACTIONS ARE: RAPID AND PROTECTIVE