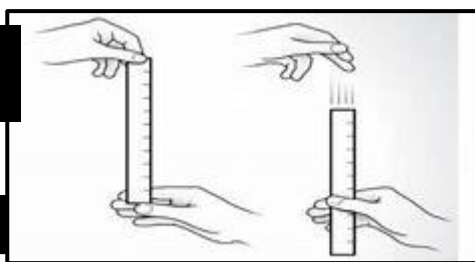


Biology Topic B10: The Human Nervous System

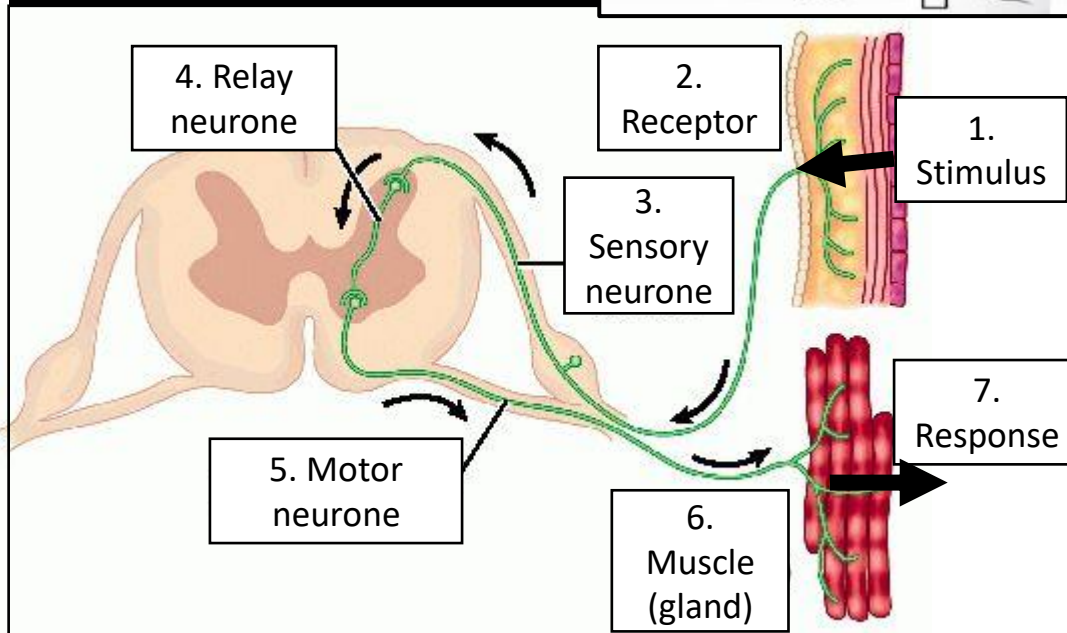
1. Keywords

Homeostasis	The regulation of the internal conditions to maintain optimum conditions.
Optimum conditions	The perfect conditions for an organism. E.g. blood glucose level, body temperature and water level.
Nervous response	Uses electrical signal in nerves to make fast changes
Chemical response	Uses hormones in the blood to make changes.
Reflex arc	A nervous response that is fast and automatic for protection. Does not involve the conscious brain.
CNS	(Central nervous system) The brain and the spinal cord.
Neurone	Nerve cell. Carries an electrical signal from one end to the other.

4. Required practical – measuring reaction times using the ruler drop test



2. Diagram of a reflex arc



3. Nervous system: Reflex arc

No.	1	2	3	4	5	6	7
Section	Stimulus	Receptor	Sensory neurone	Co-ordinator	Motor neurone	Effector	Response
Definition	A change to the environment.	A cell which detects a specific stimulus	A neurone which connect the receptor to CNS	The area that receives and processes the information	Neurone that connects the CNS to the effector	The organ that creates the response.	The effect of the stimulus.
Example	Touching a flame	Pain receptor in skin	Sensory neurone	CNS	Motor neurone	Muscle or gland	Movement