

**National 4 Biology****Success Criteria****Cell Biology Unit**

I understand that actions can allow stable body conditions to be maintained when internal or external changes take place

1. I understand that the nervous system is made up of the brain, spinal cord and nerves. I know that the brain and spinal cord are often called the Central Nervous System (CNS).				
2. I understand that receptor cells present in sense organs respond to a stimulus.				
3. I understand that messages (nerve impulses) are sent from stimulated receptor cells to the CNS through nerves.				
4. I understand that impulses are processed at the CNS then passed through nerves to an effector to allow a response to be made.				
5. I understand that that a reflex action is a rapid, protective response carried out when nerve impulses pass to the spinal cord rather than the brain.				
6. I can give examples of reflex actions.				
7. I understand that reaction rate can be altered by alcohol and certain types of drugs				
8. I understand that more sensitive areas of the skin have a greater density of touch receptors.				
9. I understand that homeostasis is the maintenance of a constant environment in the body.				
10. I know that a core body temperature of 37°C is maintained by homeostasis.				
11. I understand that that the hypothalamus is the temperature control centre				
12. I understand that the body responds to an increase in temperature through increased sweating and increased blood flow to the skin.				
13. I understand that the body responds to a decrease in temperature through decreased sweating, decreased blood flow to the skin, shivering, and hairs standing on end.				
14. I understand that blood glucose level is maintained by homeostasis.				
15. I understand that the hormone insulin reduces a high blood glucose concentration by converting the excess glucose to glycogen.				
16. I can state the causes, symptoms and treatment of Diabetes				

17. I understand that along with homeostasis, internal body conditions can be maintained through behaviour.				
18. I understand that behaviour is expressed in response to a stimulus.				
19. I can state examples of behaviour that allow temperature and blood glucose concentration to be regulated.				