GCSE Biology B10 Human Nervous System			
What are we learning?	What knowledge, understanding and skills will we gain?	What does excellence look like?	What additional resources are available?
How do organisms control internal conditions, how the human nervous system controls conscious and unconscious actions	**Knowledge** • Identify the pathway of control system • Define homeostasis • Identify examples of stimuli • Define neurone and nerve • Order events involved in a reflex action • Measure reaction time using practical experiment • State what a reflex action is • Identify why reflex actions are important **Understanding** • Explain importance of controlling internal conditions • Describe differences between nervous and chemical responses – using enzymes / osmosis • Carry out and complete practical to measure reaction time • Analyse data from practical task to explain factors effecting reaction time • Describe the pathway for impulses from receptor to effector • Explain how impulses are passed across synapses • Describe the events in reflex arc **Skills** • Can write a simple hypothesis • Write a more detailed hypothesis referring to variables • Write a detailed, scientific hypothesis independently which refers to the specific measurements to be made for IV and DV • Suggesting an appropriate IV, DV or CV from investigation title	Plan and carry out a practical experiment to test the effect of caffeine on reflex actions independently Analyse data presented from this practical and suggest plans of improvement Able to identify a range of stimuli and link the receptor and the effector through the correct pathway Research the effect of Parkinson's disease on reaction times and reflexes Research how doctors check for reflexes Develop their own practical to test for reaction time Confidently present results from practical task – including conversions	BBC Bitesize Doddle – power points and quick quizzes You tube: 'Free science lessons' Seneca learning platform

- Consider whether the CV's are appropriately managed.
- Can write a highly detailed and logical method.
- Includes a detailed preliminary test in the method
- Able to construct more complete tables with multiple data sets
- Using observations for conclusions or future predictions
- Understand the effect of sample size on the mean (and validity)
- Consider other factors that affect validity including bias
- Can discuss the strengths and limitations of these two types of data
- Appropriate line of best fit is drawn
- Pattern described with reference to both variables and data
- Refer to the whether the hypothesis is supported in the conclusion
- Draw a detailed conclusions that consider the interaction between two data sets
- Suggest how to overcome causes of uncertainty
- Fully evaluate the investigation, suggest improvements and future lines of enquiry considering bias, repeatability, equipment choice etc.
- Define: Specify the meaning of something.
- Link: write to link structure and function
- Convert between common measurements (cm-m)
- Convert between more complex measurements
- Able to work out an average from results