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| **What will we be learning?****GCSE Unit: Homeostasis & Response** | **Why this? Why now?****GCSE Course:**AQA Separate Biology**What other GCSE Science units does this unit relate to?****Cells** – 4.1.1.3 cell specialisation**Organisation** – 4.2.3 plant systems**Bioenergetics** – 4.4.1 photosynthesis, 4.4.2 respiration**Inheritance, Variation and Evolution** – 4.6.1 reproduction**Forces** – 6.5.4.3 forces and braking, reaction times | **Key Words:**homeostasisnegative feedbackreceptoreffectormusclesglandsspinal cordsensory neuronerelay neuronemotor neuronestimuliimpulsesynapseneurotransmitterreaction timereflex arcresponsepituitary glandthyroidadrenalinepancreasdiabetesoestrogen progesteroneLH FSHtestosteroneIVFaccommodationretinairisciliary musclessuspensory ligamentsoptic nervemyopiahyperopiacerebral cortexcerebellummedullavasoconstriction/vasodilationkidney tubulesADHtropismsauxingibberellinethene |
| **What will we learn?****Useful equations/formulae/maths skills for this unit:**Extract and interpret data from graphsPlot data onto graphs**Misconceptions in this topic**Hormones are only involved in puberty and reproduction - no, hormones control many different things in your body including blood glucose levels, water content, sleep cyclesPeople become diabetic when they are overweight – this may be true for some Type 2 diabetics, but this is not the cause of people who have Type 1 diabetesAll actions involve the brain – reflex actions bypass the brain so that they can occur very rapidly, this is important as they usually defend your body against harm |
| **What opportunities are there for wider study?****If you are interested in this unit, what careers does it relate to?**neurologist, cardiologist, doctor, nurse, paramedic, NHS careers, physiotherapist, psychologist, midwife, care worker, research scientist, pharmacologist, chiropractor, endocrinologist, embryologist, reproductive medicine**Collins Revision guide relevant pages for this unit:**P.46-55, 70-73, 100-103 |
| **How will I be assessed?****Deep Marking Task Title for this unit:** Reaction Times RP write up |