SB7 Animal Coordination, Control and Homeostasis

SB7a Hormones

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| Step | Learning outcome | Had a look | Nearly there | Nailed it! |
|  | State where hormones are produced (in endocrine glands). |  |  |  |
|  | Describe the general role of hormones in the body. |  |  |  |
|  | Describe how hormones are transported around the body. |  |  |  |
|  | Describe the production and release of some common hormones from their endocrine glands (pituitary gland, thyroid gland, pancreas, adrenal glands, ovaries and testes). |  |  |  |
| C:\Users\bhuiya_f\Downloads\Steps icons\Steps icons\Progression_icon_L6.jpg | Identify the target organs of some common hormones. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | Explain the importance of hormones. |  |  |  |

SB7b Hormonal control of metabolic rate

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| Step | Learning outcome | Had a look | Nearly there | Nailed it! |
|  | H Describe the effects of adrenalin on the body. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | H Explain how adrenalin prepares the body for fight or flight. |  |  |  |
|  | H Define metabolic rate. |  |  |  |
|  | H Describe the effect of thyroxine on metabolic rate. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | H Describe how a negative feedback mechanism works. |  |  |  |
|  | H Explain how negative feedback controls the production of thyroxine. |  |  |  |
|  | H Explain why negative feedback mechanisms are important in living organisms. |  |  |  |

SB7c The menstrual cycle

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| Step | Learning outcome | Had a look | Nearly there | Nailed it! |
|  | Describe what happens during the menstrual cycle. |  |  |  |
|  | Describe the function of oestrogen in the menstrual cycle. |  |  |  |
|  | Describe the function of progesterone in the menstrual cycle. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | Explain how barrier methods can be used as contraception. |  |  |  |
|  | Explain how hormones can be used as contraception. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L9.jpg | Compare, contrast and evaluate hormonal and barrier methods of contraception. |  |  |  |

SB7d Hormones and the menstrual cycle

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| Step | Learning outcome | Had a look | Nearly there | Nailed it! |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | H Describe how changes in hormones affect the uterus wall, ovulation and menstruation. |  |  |  |
|  | H Explain how oestrogen, progesterone, FSH and LH interact in the menstrual cycle. |  |  |  |
|  | H Describe examples of Assisted Reproductive Technology (ART). |  |  |  |
|  | H Explain how clomifene is used to stimulate ovulation. |  |  |  |
|  | H Explain how hormones are used in IVF treatment. |  |  |  |

SB7e Control of blood glucose

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| Step | Learning outcome | Had a look | Nearly there | Nailed it! |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | Define homeostasis. |  |  |  |
|  | Explain why a constant internal environment is important. |  |  |  |
|  | Explain the role of insulin in regulating blood glucose concentration. |  |  |  |
|  | HExplain the role of glucagon in regulating blood glucose concentration. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | Explain how type 1 diabetes is caused. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | Explain how type 1 diabetes can be controlled. |  |  |  |

SB7f Type 2 diabetes

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| Step | Learning outcome | Had a look | Nearly there | Nailed it! |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | Explain how type 2 diabetes is caused. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | Explain how type 2 diabetes can be controlled. |  |  |  |
|  | Describe the correlation between body mass and type 2 diabetes. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | Explain how BMI and waist : hip ratio are related to body mass. |  |  |  |
|  | Evaluate the correlation between body mass and type 2 diabetes. |  |  |  |

SB7g Thermoregulation

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| Step | Learning outcome | Had a look | Nearly there | Nailed it! |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | Define the term ‘thermoregulation’. |  |  |  |
|  | Explain the importance of thermoregulation in enzyme activity. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L9.jpg | Explain the role of the skin in thermoregulation [blood flow in dermis, sweating and hair erection in epidermis]. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L9.jpg | Explain the role of the hypothalamus in thermoregulation. |  |  |  |
|  | Explain the role of muscles in raising low body temperature. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L9.jpg | H Explain the role of changing blood vessel diameter in thermoregulation. |  |  |  |

SB7h Osmoregulation

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| Step | Learning outcome | Had a look | Nearly there | Nailed it! |
|  | Describe the structure of the urinary system. |  |  |  |
|  | State how urea is formed. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | Define the term ‘osmoregulation’. |  |  |  |
|  | Describe how kidney failure is treated [kidney dialysis, organ donation] |  |  |  |
|  | Explain why osmoregulation is important. |  |  |  |

SB7i The kidneys

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| Step | Learning outcome | Had a look | Nearly there | Nailed it! |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | Describe the parts of a nephron. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L7.jpg | State what urine contains. |  |  |  |
|  | Explain how the structure of the nephron allows filtration. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L9.jpg | Explain how the structure of the nephron supports reabsorption of glucose. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L9.jpg | Explain how the structure of the nephron supports reabsorption of water. |  |  |  |
| D:\WD\Live Job\2016\Sep-16\regcsesciencewordformattingsb3sc13sp4andsp5\Required_Input\Required_Input\TTPP progression steps icons\Progression_icon_L9.jpg | H Explain the role of ADH in controlling body water content. |  |  |  |