

SB7 Animal Coordination, Control and Homeostasis

SB7a Hormones

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 6 th	State where hormones are produced (in endocrine glands).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Describe the general role of hormones in the body.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Describe how hormones are transported around the body.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Describe the production and release of some common hormones from their endocrine glands (pituitary gland, thyroid gland, pancreas, adrenal glands, ovaries and testes).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Identify the target organs of some common hormones.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Explain the importance of hormones.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SB7b Hormonal control of metabolic rate

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 6 th	H Describe the effects of adrenalin on the body.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	H Explain how adrenalin prepares the body for fight or flight.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 5 th	H Define metabolic rate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	H Describe the effect of thyroxine on metabolic rate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	H Describe how a negative feedback mechanism works.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	H Explain how negative feedback controls the production of thyroxine.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 10 th	H Explain why negative feedback mechanisms are important in living organisms.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SB7c The menstrual cycle

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 6 th	Describe what happens during the menstrual cycle.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Describe the function of oestrogen in the menstrual cycle.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Describe the function of progesterone in the menstrual cycle.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Explain how barrier methods can be used as contraception.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	Explain how hormones can be used as contraception.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 th	Compare, contrast and evaluate hormonal and barrier methods of contraception.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SB7d Hormones and the menstrual cycle

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 7 th	H Describe how changes in hormones affect the uterus wall, ovulation and menstruation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	H Explain how oestrogen, progesterone, FSH and LH interact in the menstrual cycle.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	H Describe examples of Assisted Reproductive Technology (ART).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	H Explain how clomifene is used to stimulate ovulation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	H Explain how hormones are used in IVF treatment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SB7e Control of blood glucose

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 7 th	Define homeostasis.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	Explain why a constant internal environment is important.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	Explain the role of insulin in regulating blood glucose concentration.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	H Explain the role of glucagon in regulating blood glucose concentration.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Explain how type 1 diabetes is caused.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Explain how type 1 diabetes can be controlled.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SB7f Type 2 diabetes

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 7 th	Explain how type 2 diabetes is caused.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Explain how type 2 diabetes can be controlled.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Describe the correlation between body mass and type 2 diabetes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Explain how BMI and waist : hip ratio are related to body mass.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	Evaluate the correlation between body mass and type 2 diabetes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SB7g Thermoregulation

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 7 th	Define the term 'thermoregulation'.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	Explain the importance of thermoregulation in enzyme activity.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 th	Explain the role of the skin in thermoregulation [blood flow in dermis, sweating and hair erection in epidermis].	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 th	Explain the role of the hypothalamus in thermoregulation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	Explain the role of muscles in raising low body temperature.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 th	 Explain the role of changing blood vessel diameter in thermoregulation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SB7h Osmoregulation

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 5 th	Describe the structure of the urinary system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	State how urea is formed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	Define the term 'osmoregulation'.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 6 th	Describe how kidney failure is treated [kidney dialysis, organ donation]	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	Explain why osmoregulation is important.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SB7i The kidneys

Step	Learning outcome	Had a look	Nearly there	Nailed it!
 7 th	Describe the parts of a nephron.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 7 th	State what urine contains.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 8 th	Explain how the structure of the nephron allows filtration.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 th	Explain how the structure of the nephron supports reabsorption of glucose.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 th	Explain how the structure of the nephron supports reabsorption of water.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 9 th	 Explain the role of ADH in controlling body water content.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>