Revision checklist

SB2 Cells and control

SB2a Mitosis

Step	Learning outcome	Had a look	Nearly there	Nailed it!
7 th	List the names and order of the stages of the cell cycle, including mitosis.			
8 th	Describe what happens in each stage of the cell cycle, including mitosis.			
7 ^{ch}	Describe why mitosis is important for an organism. (growth, repair, asexual reproduction)			
9th	Explain why organisms may rely on asexual reproduction.			
7 th	Describe how mitosis produces genetically identical, diploid cells.			
7 th	Describe how cancers grow.			

SB2b Growth in animals

Step	Learning outcome	Had a look	Nearly there	Nailed it!
4 th	Define growth in animals as an increase in cell number and size.			
5 th	Give examples of specialised animal cells.			
6 th	Describe how structure of specialised animal cells is related to their function.			
7 th	Explain why cell differentiation is important in the development of specialised cells.			
8 th	Use percentile growth curves to interpret growth in children.			

SB2c Growth in plants

Step	Learning outcome	Had a look	Nearly there	Nailed it!
8 th	Describe the stages of growth in plants (cell division/mitosis, elongation, differentiation).			
5 th	Give examples of specialised plant cells.			
6 th	Describe how the structures of specialised plant cells are related to their functions.			
7 th	Explain why cell differentiation is important in the development of specialised cells in plants.			

Edexcel GCSE (9-1)

Sciences

Revision checklist

SB2

SB2d Stem cells

Step	Learning outcome	Had a look	Nearly there	Nailed it!
7 th	Describe where stem cells are found.			
7 th	Describe the function of stem cells in plants and animals.			
9 th	Compare embryonic and adult stem cells in animals.			
7 th	Give examples of where stem cells may be used in medicine.			
8 th	Identify benefits and risks of using stem cells in medicine.			
10 th	Evaluate the use of stem cells in medicine (by comparing their benefits and risks).			

SB2e The brain

Step	Learning outcome	Had a look	Nearly there	Nailed it!
6 th	Describe what the brain is made up of.			
6 th	Identify different parts of the brain (cerebellum, cerebral hemispheres, medulla oblongata).			
6 th	Describe the functions of different parts of the brain (cerebellum, cerebral hemispheres, medulla oblongata).			

SB2f Brain and spinal cord problems

Step	Learning outcome	Had a look	Nearly there	Nailed it!
7 th	H Describe CT and PET scanning.			
9 th	Explain how brain function is studied using scanning, and the advantages of this			
8 th	Explain the effects of spinal cord damage.			
8 th	Explain the effects of damage to different parts of the brain (including tumours).			
6 th	Explain the limitations of brain surgery.			
6 th	Explain why some types of spinal cord damage cannot be fully repaired			

Edexcel GCSE (9–1)

Sciences

Revision checklist

SB2

SB2g The nervous system

Step	Learning outcome	Had a look	Nearly there	Nailed it!
6 th	List the parts of the nervous system.			
4 th	Describe how the nervous system detects stimuli.			
7 th	Describe the structure of sensory neurones.			
7 th	Describe the routes that impulses take to and from the brain.			
8 th	Explain how sensory neurones are adapted to their functions (including the myelin sheath).			

SB2h The eye

Step	Learning outcome	Had a look	Nearly there	Nailed it!
6 th	Identify the main parts of the eye.			
7 th	Explain how the cornea, lens, iris and retina are adapted to their functions.			
7 th	Explain how receptor cells allow full colour vision in bright light.			
7 th	Describe common eye defects (cataracts, long-sightedness, short-sightedness, colour blindness).			
7 th	Describe how cataracts are treated.			
9 th	Explain how long- and short-sightedness can be corrected.			

SB2i Neurotransmission speeds

Step	Learning outcome	Had a look	Nearly there	Nailed it!
7 th	Describe how the nervous system responds to stimuli.			
7 th	Describe the structures of motor neurones and relay neurones.			
8 th	Explain how motor neurones are adapted to their functions.			
9 th	Explain the action and function of synapses.			
9th	Explain how the structure of the reflex arc allows a faster response.			
8 th	Describe the structure and function of the reflex arc.			