CB2 Cells and control

RAG rate your confidence levels at the start and end of each topic:

R= Not Confident **A= Fairly confident (need more practice/ to review)** **G= Very confident**

CB2a Mitosis

Step	Learning outcome	Start of topic	End of Topic
	List the names and order of the stages of the cell cycle, including mitosis.	☐	☐
	Describe what happens in each stage of the cell cycle, including mitosis.	☐	☐
	Describe why mitosis is important for an organism. (growth, repair, asexual reproduction)	☐	☐
	Explain why organisms may rely on asexual reproduction.	☐	☐
	Describe how mitosis produces genetically identical, diploid cells.	☐	☐
	Describe how cancers grow.	☐	☐

CB2b Growth in animals

Step	Learning outcome	Start of topic	End of Topic
	Define growth in animals as an increase in cell number and size.	☐	☐
	Give examples of specialised animal cells.	☐	☐
	Describe how structure of specialised animal cells is related to their function.	☐	☐
	Explain why cell differentiation is important in the development of specialised cells.	☐	☐
	Use percentile growth curves to interpret growth in children.	☐	☐

CB2c Growth in plants

Step	Learning outcome	Start of topic	End of Topic
	Describe the stages of growth in plants (cell division/mitosis, elongation, differentiation).	☐	☐
	Give examples of specialised plant cells.	☐	☐
	Describe how the structures of specialised plant cells are related to their functions.	☐	☐

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	Explain why cell differentiation is important in the development of specialised cells in plants.	☐	☐

CB2d Stem cells

Step	Learning outcome	Start of topic	End of Topic
	Describe where stem cells are found.	☐	☐
	Describe the function of stem cells in plants and animals.	☐	☐
	Compare embryonic and adult stem cells in animals.	☐	☐
	Give examples of where stem cells may be used in medicine.	☐	☐
	Identify benefits and risks of using stem cells in medicine.	☐	☐
	Evaluate the use of stem cells in medicine (by comparing their benefits and risks).	☐	☐

CB2e The nervous system

Step	Learning outcome	Start of topic	End of Topic
	List the parts of the nervous system.	☐	☐
	Describe how the nervous system detects stimuli.	☐	☐
	Describe the structure of sensory neurones.	☐	☐
	Describe the routes that impulses take to and from the brain.	☐	☐
	Explain how sensory neurones are adapted to their functions (including the myelin sheath).	☐	☐

CB2f Neurotransmission speeds

Step	Learning outcome	Start of topic	End of Topic
	Describe how the nervous system responds to stimuli.	☐	☐
	Describe the structures of motor neurones and relay neurones.	☐	☐
	Explain how motor neurones are adapted to their functions.	☐	☐
	Explain the action and function of synapses.	☐	☐
	Explain how the structure of the reflex arc allows a faster response.	☐	☐
	Describe the structure and function of the reflex arc.	☐	☐

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