

Name

Class

Date

Cell division

Lesson	Aiming for 4 (Foundation / Intermediate)		Aiming for 6 (Intermediate / Higher)		Aiming for 8 (Higher / Exceptional)	
B2.1 Cell division	I can state that human body cells have 46 chromosomes and gametes have 23.		I can explain why chromosomes in body cells are normally found in pairs.		I can explain why genetic material must be doubled during mitosis.	
	I can state that mitosis is a stage in cell division.		I can describe situations where mitosis is occurring.		I can explain in detail what happens at each stage of the cell cycle.	
	I can state the meaning of most of the keywords – mitosis, chromosomes, gene, gametes.		I can use the keywords to describe the process of mitosis.		I can use the keywords to write detailed explanations on why mitosis is an important process in living things and how characteristics are inherited.	
B2.2 Growth and differentiation	I can define the terms growth and differentiation.		I can describe the importance of cell differentiation in multicellular organisms.		I can compare and contrast differentiation in plants and animals.	
	I can state why plant clones are genetically identical to each other.		I can explain how using tissue culture creates a clone of a plant.		I can explain why it is easier to clone a plant compared to an animal.	
	I can attempt to clone a plant by using apparatus correctly.		I can attempt to clone a plant by using the apparatus correctly and following safety rules.		I can explain and carry out a practical accurately and safely in order to successfully clone a plant.	
B2.3 Stem cells	I can state that a stem cell is a cell that is not differentiated.		I can describe differences between embryonic and adult stem cells.		I can explain why embryonic stem cells are more useful for helping medical conditions.	
	I can state that plant stem cells can be used to create clones.		I can explain why plant clones are produced in the agriculture industry.		I can write a well-structured article about stem cells which has impact by the use of precise vocabulary and real-life examples.	

AQA Biology

GCSE Year 9 Knowledge Grid

Christleton High School B2 Cell Division

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	I can write a simple article which states ways that stem cells can be used to help medical conditions.		I can write an well-structured article which communicates effectively how stem cells can be used to help medical conditions.		
B2.4 Stem cell dilemmas	I can list some arguments for and against the use of stem cells.		I can describe what therapeutic cloning can be used for.		I can explain the process of therapeutic cloning organism.
	I can verbally communicate simple ideas during a group discussion.		I can explain the reasons for ethical and religious objections against stem cells.		I can evaluate the use of stem cells.
			I can verbally communicate well-constructed arguments.		I can clearly communicate strong, well-researched arguments in a persuasive manner.