

Part 5 Cells die, but life goes on!

Activity No	Activity Name	Lesson type	Activity Description	
5.1	<u>Is death a part of life?</u>	Engage, Explore, Explain & Elaborate	Students investigate the cycle of life and death of cells by interpreting an animation of cells in intestinal villi.	Optional
		Digital		
		Medium		
5.2	<u>A scientific breakthrough!</u>	Explain & Elaborate	Students investigate the life and work of Professor Barry Marshall by listening to an interview and exploring other media sources. They study how he made the link between the bacterium <i>Helicobacter</i> and stomach ulcers and cancer.	Core
		Digital		
		Medium		
5.3	<u>Why the difference?</u>	Explore, Explain & Elaborate	Students compare and contrast organ systems of animals from different niches. They explore the relationships between teeth and diet, and skeletal systems and lifestyle. An interactive program is used to compare the respiratory systems of humans, frogs and fish.	Optional
		Classroom & Digital		
		Medium		
5.4	<u>Reproductive strategies in animals</u>	Explore, Explain & Elaborate	Students analyse written and visual information to make comparisons between animals with different reproductive strategies. They relate the reproductive strategies to the animal's niche and classification.	Core
		Classroom & Digital		
		Long		
5.5	<u>Plants reproduce too!</u>	Explore, Explain, Elaborate & Evaluate	Students study sexual reproduction in plants using digital media and hands-on experiences to learn about the structure of flowers and their function in pollination and fertilization. Students evaluate their knowledge of flower parts (formative assessment) in a click-and-drag exercise.	Core
		Hands-on & Digital		
		Long		

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5.6	But there's another way!	Explore & Explain	Students investigate methods of asexual reproduction in plants. This is followed by discussion of the advantages and disadvantages of reproductive methods.	Optional
		Hands-on & Classroom		
		Medium		
5.7	Presenting and interpreting experimental results	Explain & Elaborate	Students consolidate their skills of tabulation, graphing and drawing valid conclusions through guided activities.	Core
		Classroom		
		Medium		
5.8	So how did it grow?	Explain, Elaborate & Evaluate	Students correlate the information collected during the growth of their bean and write a scientific report on their findings. This can be used as a summative assessment .	Core
		Classroom		
		Medium		
5.9	Sample test	Evaluate	A sample summative test (editable version of the test and marking scheme) is available to teachers by request from <i>Science by Doing</i> . You may need to adapt the test to the needs of your students.	Optional
		Classroom		
		Medium		

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