

Week	Area	Topics	Learning focus
1	How does reproduction maintain the continuity of life?	The Cell cycle	<ul style="list-style-type: none"> derivation of cells from pre-existing cells binary fission in prokaryotic cells key events of Mitosis cytokinesis in plants and animal cells key events in the various stages of the cell cycle in eukaryotic cells control of the cell cycle
2			
3		Asexual and sexual reproduction	<ul style="list-style-type: none"> types of asexual reproduction biological advantages and disadvantages of asexual reproduction emerging issues associated with cloning key events in meiosis including crossing over and non-disjunction biological advantage of sexual reproduction
4			
5		Cell growth and differentiation	<ul style="list-style-type: none"> types and functions of stem cells in human development difference between embryonic and adult stem cells and their potential use in medical therapies consequences of stem cell differentiation development of germ layers cancer abnormal embryonic development
6	How is inheritance explained?	Genomes, genes, alleles and chromosomes	<ul style="list-style-type: none"> distinction between chromosome, genome, gene, allele uniqueness of individual genomes measured at base pair level role of genomic research role of chromosomes; chromosome variability autosomes and sex chromosomes nature of homologous pairs gene loci creation and use of karyotypes
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9		Genotypes and phenotypes, pedigree charts, genetic cross outcomes and genetic decision-making	<ul style="list-style-type: none"> • symbols used in assigning genotypes • dominant and recessive phenotypes • the influence of genes, environmental factors and epigenetic factors on phenotype • polygenic inheritance leading to continuous variation using height or skin colour in humans as examples • Pedigree analysis and genetic cross exercises • Huntington's Disease case study
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Term 4		Outcome 3 Investigation of an Issue	<ul style="list-style-type: none"> • Identifying Issues, stakeholders, and describing technology involved • Conducting research; Credible sources; investigating ethics; communicating facts and opinions • Presenting data; scientific writing • Referencing
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4		Content (not covered at end of Term 3)	
5		Content (not covered at end of Term 3)	
6		Exam study	
7		Unit 2 Examination Week	
8		Year 12 Headstart	
9		Year 11 Headstart	
10-11		Enjoy your holidays! ☺	