

Topic		Cells				
General LO's		NC sections cells and reproduction				
LESSON		LO's	Activities	Resources	Assessment	Safety
1	Plant and Animal cells	Identify and describe plant and animal cells and organelles. Know the functions of the cell wall, cell membrane, cytoplasm, nucleus, vacuole, mitochondria and chloroplasts the similarities and differences between plant and animal cells the structural adaptations of some unicellular organisms	Draw and animal and plant cell from memory. PA. Research organelles QWC 6 mark Q SA. H/W research structure and Function of Specialised Cells Label microscope drawing Prepare a slide Microscope drawing H/w: Research animal and plant cells		Labelled cells Annotations of cells Table correctly identifying structures	
2	Microscopes	Observe and record cell structure using a microscope	SA H/W Magnification calculations Labelling the microscope. Practical create onion cell slide.	Unlabelled drawing of a microscope Practical – onions, scapels, forceps, slides, cover slips, iodine, x dye, cotton buds, microscopes, lamps PLEASE COUNT BACK SCAPELS.	Correctly labelled microscope Care taken when drawing	Care with Knives and use of stains Care with thin cover slips Possibility of cuts
3	Cells to Organ Systems	cells as the fundamental unit of living organisms the hierarchical organisation of multicellular organisms	Watch video discuss analogy of Pit stop. Cut and stick organs activity Using poster function of the organ systems. Peer assess H/w – revise for QM1	Year 7 text books Unlabelled organ diagrams cut and stick. Laminated organ systems information	Labelled organs Explaining adaptation in terms of function	
4	QM 1	Recap lessons so far	Tasks on sheet	QM sheet	On sheet	

5	Diffusion (COMPUTER ROOM)	the role of diffusion in the movement of materials in and between cells	Load ppt and Qs onto SMHW Answer questions based on ppt slides. Can be done individually in computer room or as whole class together	BOOK COMPUTER ROOM! Question sheet (only needed if not booked a computer room)	Peer assess answers	
6	Reproduction	Describe the process of sexual and asexual reproduction	Lead students through powerpoint answering the in text questions. Show students spider plant as example of asexual reproduction. Learn the male and female reproductive systems	Table on sexual and asexual reproduction Spider plant. Diagrams of male and female reproductive systems	Q&A PA SA	
7	Menstrual Cycle	State what the menstrual cycle is and describe the main stages. Describe the main changes that take place during puberty.	Discuss puberty Produce table listing changing in puberty. Pupils use phones to research Menstrual cycle timeline	Year 7 textbooks with menstrual cycle. phones	Q&A PA SA	
8	Fertilisation	Describe the structure and function of gametes, and describe the process of fertilisation.	Discuss fertilisation, complete word fill. Complete the activity sheet. Complete Quiz and create story board	Activity sheet. You tube clip on Robert Winston human body. (trying to get DVD)		
9	Birth and puberty	gestation and birth, to include the effect of maternal lifestyle on the foetus through the placenta (puberty)	Watch series of videos, discuss as you go, make notes and answer questions. Draw a table of puberty for boys and girls H/w - revision	Year 7 text books Coloured paper or revision cards	Peer mark answers	
10	Revision and Test	revise	Using revision techniques of your choosing	Test Ebi sheet	Test	
11	Ebi	improvements	Ebi's	-	Improvements made	

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