

SCIENCE DEPARTMENT
Topic: Cells & Organisms PART 1

Grade	Knowledge	Before	After
7.9	I can evaluate a models of a cell, identifying strengths and weaknesses in the model.		
7.8	I can apply knowledge of cell structure to record observations made through a light microscope and estimate sizes of cells.		
7.7	I can draw a labelled scientific diagram of a cell observed under a light microscope.		
7.6	I can explain how cell structures relate to the overall job of the cell (specialised cells). I can work out microscope magnifications. I can compare the structure of plant and animal cells using diagrams.		
7.5	I can describe the levels of organisation. I can describe the adaptations of a unicellular organism. I can describe the job of specialised cells in animals and plants. I can describe how to use a light microscope to look at a slide.		
7.4	I can describe diffusion*. I can describe what tissues are with examples. I can describe the jobs of each cell organelle, cell wall, cell membrane, cytoplasm, nucleus, vacuole, mitochondria, and chloroplasts. I can identify and label organelles in animal and plant cells. I can describe the seven life processes.		
7.3	I can describe what unicellular and multicellular organisms are. I can describe what specialised cells are. I can give examples of cell organelles.		
7.2	I can say what a cell organelle is. I can say what a cell is. I can name the seven life processes.*		

7.1	I can identify a cell.		
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7.9			
7.8			
7.7			
7.6	I can explain how organs are formed and how organs form organ systems. I can explain how to measure the force exerted by muscles (using scales).		
7.5	I can describe the functions of different organ systems in the body. I can describe how antagonistic muscles work together with examples.		
7.4	I can describe the difference between tendons and ligaments. I can describe how the muscles and skeleton interact.		
7.3	I can describe what biomechanics are. I can give examples of muscles in the body. I can give examples of bones in the body.		
7.2	I can say what the jobs of the human skeleton are. I can say what a joint is. I can say what muscles are.		
7.1	I can remember the job of muscles. I can name the basic parts of the human skeleton – e.g. bones and joints.		