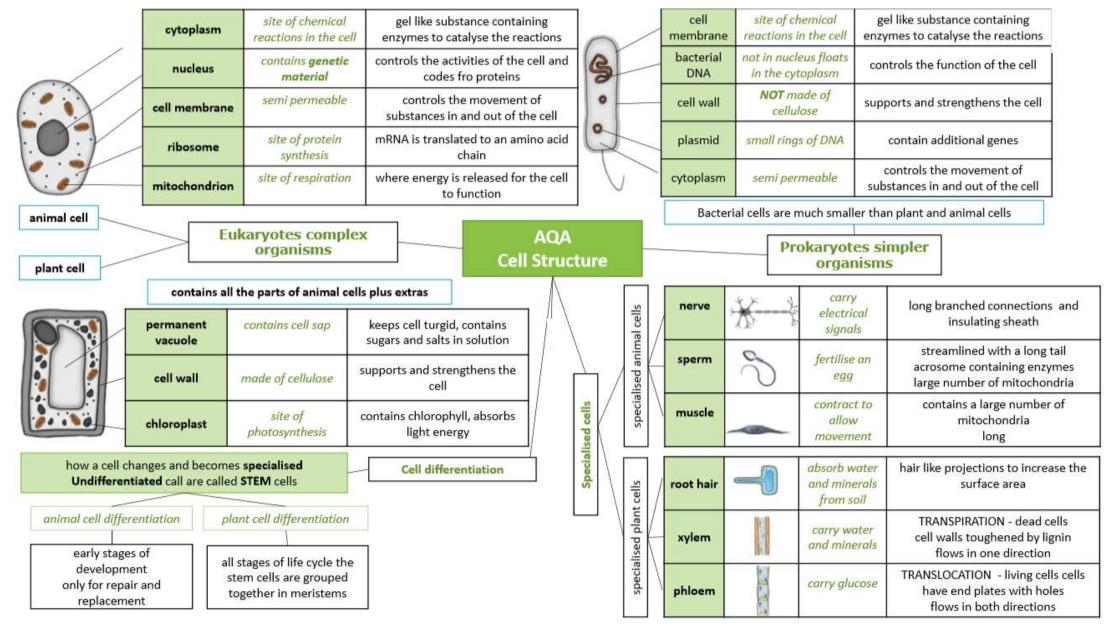
Cell Biology and diffusion L1-7



Cell Biology and diffusion L1-7 An organ system in which organs work together to digest and absorb food. Villi – increase surface area, Good blood supply – to maintain concentration Small intestines gradient, Thin membranes - short diffusion distance. mouth More energy Alveoli- increase surface area, Good blood supply - to maintain concentration consumed in oesophagus Lungs gradient, Thin membranes - short diffusion distance. food and drink Non-communicable than used Gill filaments and lamella - increase surface area, Good blood supply - to Gills in fish maintain concentration gradient, Thin membranes - short diffusion distance. obesity The human Linked to liver Roots Root hair cells - increase surface area. stomach digestive increased rates of gall bladder system pancreas Large surface area, thin leaves for short diffusion path, stomata on the lower cardiovascular Leaves surface to let O, and CO, in and out. disease and smal large development intestines intestines of diabetes type 2. **AQA GCSE** anus **ORGANISATION** Part 1 Tissues and organs L8-10 Principles of organisation The greater the difference in concentrations the faster ADAPTATIONS FOR DIFFUSSION The basic building blocks the rate of diffusion. Cells e.g. muscle cells of all living organisms. AQA Cells, tissues, organs Movement of particles E.g. O, and CO, in gas exchange, Cell Biology Diffusion A group of cells with a in a solution or gas urea in kidneys. Factors that affect and systems e.g. muscle No energy Tissues similar structure and from a higher to a the rate are concentration, tissue required function. lower concentration temperature and surface area. Aggregations (working together) of tissues e.g. the heart **Organs** performing a specific function. Organs working together e.g. the Organ to form organ systems, circulatory which work together to systems system form an organism.