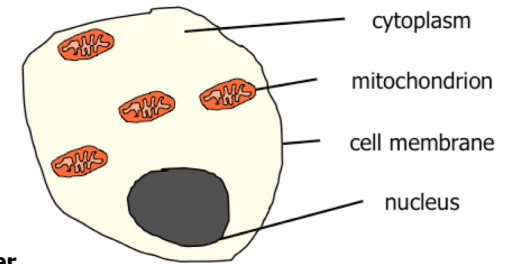
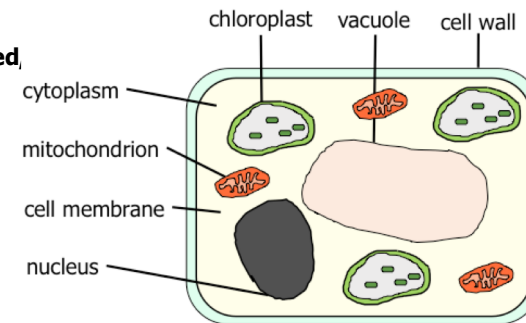


**Unit 1 Organelles to Cells**

**Animal cell**



**Plant cell**



1 Animal cell	A cell. Contains 4 organelles: cell membrane, cytoplasm, mitochondrion and nucleus.
2 Cell	A microscopic building block that makes up all organisms.
3 Cell membrane	An organelle. A thin skin that allows food, water and oxygen in. Lets waste out. Is semi-permeable.
4 Cell wall	An organelle. A cell wall is around the cell membrane. Maintains the rectangular shape of the plant cell. Made of cellulose. Keeps the plant upright.
5 Chlorophyll	A substance. A green dye which absorbs sunlight.
6 Chloroplast	An organelle. Only found in plants. Photosynthesis happens here.
7 Cytoplasm	An organelle. A jelly-like liquid. Contains organelles. Where chemical reactions happen.
8 Duplicate	A process. To make an identical copy of something.
9 Genetic information	The instructions for duplication. Hold information about the organism's characteristics. Found in the nucleus.
10 Hooke (Robert)	A person. Born in 1635. Discovered that living organisms are made out of microscopic building blocks that look like rooms, which he named 'cells'.
11 Living organism	Anything that can (MRS GREN) move, respire, (be) sensitive, grow, reproduce, excrete and (get) nutrition.
12 Microscope	Equipment. A tube containing lenses that can make microscopic objects like cells look larger.
13 Mitochondrion	An organelle. Site of respiration. Releases energy. Plural: Mitochondria.
14 Multicellular organism	An organism. Made up of many cells. E.g. ant, tree.
15 Nucleus	An organelle. The control centre of the cell. Holds genetic information, to allow cell duplication. Plural: Nuclei.
16 Organ	Made out of many types of tissue. E.g. stomach, lungs.
17 Organelle	Makes up a cell.
18 Oxygen	A substance. Used by the mitochondrion during respiration.
19 Photosynthesis	A process. Happens in the chloroplast. Sunlight converts into sugar.
20 Plant cell	A cell. Contains 7 organelles: cell membrane, cell wall, chloroplast, cytoplasm, mitochondrion, nucleus and vacuole.
21 Respiration	A process. Happens in the mitochondrion. Oxygen and sugar convert into carbon dioxide and water (and energy).
22 Semi permeable	Allowing some substances through.
23 Substance	A gas, liquid or solid.
24 Tissue	A collection of the same cells, working together. E.g. epithelial tissue.
25 Unicellular organism	An organism. Made up of one cell. E.g. amoeba.
26 Vacuole	An organelle. Filled with sugary sap, water and waste.

1 Living organisms are made of cells,  
 2 Cells are made of organelles!  
 3 They're the smallest things that replicate,  
 4 This helps them to duplicate!

5 The cell membrane is a thin skin,  
 6 Allowing food, water and oxygen in,  
 7 The membrane lets waste out,  
 8 It's semi-permeable there's no doubt,  
 9 Allowing some substances through,  
 10 Saying no to others, like it ought to.

11 The nucleus is the control center,  
 12 The nuclear membrane decides what can enter.  
 13 Holding - genetic information,  
 14 To allow for cell reproduction!

15 The cytoplasm is the jelly-like liquid,  
 16 It contains organelles that might have drifted,  
 17 The mitochondrion is the site of respiration,  
 18 Releasing energy for cell reproduction!

19 Loving sunlight showers is the chloroplast,  
 20 Only found in plants, it's having a blast,  
 21 Photosynthesis happens here,  
 22 And sunshine is the elixir!

23 Plant cells also contain the vacuole,  
 24 Filled with sugary sap for the plant to grow,  
 25 A cell wall is around the cell membrane,  
 26 It's rectangular shape it helps to maintain,  
 27 It's made from cellulose which is strong,  
 28 It keeps the plant upright – it can do no wrong!

organelles → cells → tissues → organs → organ systems → organisms

All living organisms...

- Move
- Respire
- Sensitive
- Grow
- Reproduce
- Excrete
- Nutrition

(be)

(get)