## 7A Cells, Tissues, Organs and Systems

1. Life Processes	
Life Processes	If something can do all 7 life processes it is considered a
	'living thing'
	They are; movement,
	reproduction, sensitivity, growth, respiration,
	excretion and nutrition.
Organism	A living thing.
Movement	Being able to move from
	place to place or move part
	of themselves.
Reproduction	Being able to make more
	living things like themselves.
Sensitivity	Being able to sense and react
Sensitivity	to things around them.
Growth	Being able to increase in size.
Desmination	Being able to release energy
Respiration	through respiration.
Excretion	Being able to get rid of waste
	materials.
Nutrition	Taking in substances (such as
	food) to help carry out the
	other processes.

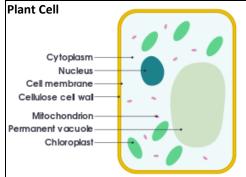
2. Organs		
Organ	A part of animals or plants that does an important job-	
	made up of different tissues.	
Function	The job or role something has.	
Brain	Controls the body.	
Skin	The bodies biggest organ-	
	used for protection and sensing things.	

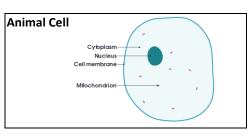
	Take in oxygen for	
Lungs	respiration and excrete	
	carbon dioxide.	
Haant	Pumps blood around the	
Heart	body.	
12	Makes and destroys	
Liver	substances.	
	Clean the blood and	
Kidneys	produce urine to excrete	
-	waste.	
Bladder	Stores urine.	
Stomach	Breaks up food.	
Con all lusttt	Breaks up food and	
Small Intestine	absorbs it.	
	Removes water from	
Large Intestine	unwanted food.	
Dt	Stores faeces (waste	
Rectum	material)	
Human Organs		
_		
Brain	Mouth	
Throat	Windpipe (Trachea)	
(oesphagus)		
Right Lung	Heart (behind the lung)	
Diaphragm	Stomach	
Liver	Large intestine	
Kidney	Small intestine	
Skin		
) 4	Bladder	
Loof	Traps sunlight to make	
Leaf	food for a plant.	
	100d for a plant.	
Stom	Carries substances around	
Stem		
Stem	Carries substances around	
Stem	Carries substances around a plant.	
	Carries substances around a plant. Holds the plant in place	
	Carries substances around a plant. Holds the plant in place and takes in water and	

3. Tissues	
	Groups of the same cells
Tissues	Groups of the same cells doing the same job- make up
	organs.

The Heart	Made up of muscle tissue so
	it can move and pump the
	blood as well as fat tissue to
	protect it.
Root Hair Tissue	Small hairs on the outside of
	roots which help to take in as
	much water as possible.
Xylem Tissue	The tissue which carries
	water up through plants from
	the roots.

4. Cells		
	The basic units from which	
Cells	all tissues and living things	
	are made from.	
Specialised	When something has	
	features that allow it to do a	
	particular job.	
Cell Surface	Controls what enters and	
Membrane	leaves the cell.	
Nucleus	Controls the cell.	
Cutonloom	Jelly like substance where	
Cytoplasm	chemical reactions happen.	
Mitochondria	(mitochondrion- singular)	
	Where respiration happens.	
Chloroplasts	Make food for the plant	
	using photosynthesis-	
	contains chlorophyll.	
Cell Wall	Strengthens and supports	
	the cell- made of cellulose.	
Vacuole	Storage space filled with cell	
	sap.	
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5. Organ Systems		
Organ	A collection of organs	
Systems	working together.	
Circulatory System	Heart, blood vessels	
	Carries oxygen and nutrients	
	around the body.	
Digestive	Gullet, stomach, intestines	
	Breaks down food and takes	
System	nutrients into the blood.	
Locomotor	Muscles, bones	
System	Enables the body to move.	
Urinary	Kidneys, bladder	
Urinary System	Gets rid of waste materials	
	produced in the body.	
Breathing	Lungs, trachea	
System	Allows exchange of gases	
	between blood and lungs.	
Nervous System	Brain, nerves, spinal cord	
	Allows the body to sense	
	things and react to them.	
Water	Roots, stem, leaves	
Transport	Transports water around the	
System	plant.	

Lesson	Memorised?
1. Life Processes	
2. Organs	
3. Tissues	
4. Cells	
5. Organ Systems	