## 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
	to things around them.
Growth	Being able to increase in size.
Respiration	Being able to release energy
	through respiration.
Excretion	Being able to get rid of waste
excretion	materials.
	Taking in substances (such as
Nutrition	food) to help carry out the
	other processes.

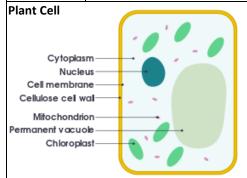
2. Organs		
Organ	A part of animals or plants	
	that does an important job-	
	made up of different	
	tissues.	
Function	The job or role something	
	has.	
Brain	Controls the body.	
Skin	The bodies biggest organ-	
	used for protection and	
	sensing things.	

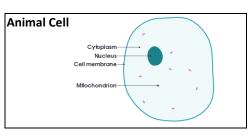
	Take in oxygen for	
Lungs	respiration and excrete	
	carbon dioxide.	
Heart	Pumps blood around the	
	body.	
1	Makes and destroys	
Liver	substances.	
	Clean the blood and	
Kidneys	produce urine to excrete	
-	waste.	
Bladder	Stores urine.	
Stomach	Breaks up food.	
Con all lust4!	Breaks up food and	
Small Intestine	absorbs it.	
	Removes water from	
Large Intestine	unwanted food.	
Dt	Stores faeces (waste	
Rectum	material)	
Human Organs	<u> </u>	
_		
Brain	Mouth	
Throat	Windpipe (Trachea)	
(oesphagus)		
Right Lung	Heart (behind the lung)	
Diaphragm	Stomach	
Liver	( Carlotte )	
1/	Large intestine	
Kidney		
Kidney	Small intestine	
Kidney Skin		
Skin	Small intestine Bladder	
	Small intestine	
Skin	Small intestine Bladder  Traps sunlight to make	
Skin	Traps sunlight to make food for a plant. Carries substances around	
Skin	Traps sunlight to make food for a plant.  Carries substances around a plant.	
Skin	Traps sunlight to make food for a plant. Carries substances around	
Leaf Stem	Traps sunlight to make food for a plant. Carries substances around a plant. Holds the plant in place and takes in water and	
Leaf Stem	Traps sunlight to make food for a plant. Carries substances around a plant. Holds the plant in place	

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

The Heart lit cal	e up of muscle tissue so n move and pump the d as well as fat tissue to
bloo	d as well as fat tissue to
bloo	
nrat	
prot	ect it.
Root Hair Sma	ll hairs on the outside of
Tissue	s which help to take in as
muc	h water as possible.
The	tissue which carries
Xylem Tissue wate	er up through plants from
the r	oots.

4. Cells		
	The basic units from which	
Cells	all tissues and living things	
	are made from.	
	When something has	
Specialised	features that allow it to do a	
	particular job.	
Cell Surface	Controls what enters and	
Membrane	leaves the cell.	
Nucleus	Controls the cell.	
Cytoplasm	Jelly like substance where	
	chemical reactions happen.	
Mitochondria	(mitochondrion- singular)	
	Where respiration happens.	
Chloroplasts	Make food for the plant	
	using photosynthesis-	
	contains chlorophyll.	
Cell Wall	Strengthens and supports	
Ceii Waii	the cell- made of cellulose.	
Vacuala	Storage space filled with cell	
Vacuole	sap.	





5. Organ Systems	
Organ	A collection of organs
Systems	working together.
Circulatory	Heart, blood vessels
System	Carries oxygen and nutrients
System	around the body.
Digestive	Gullet, stomach, intestines
System	Breaks down food and takes
Эузсенн	nutrients into the blood.
Locomotor	Muscles, bones
System	Enables the body to move.
Urinary System	Kidneys, bladder
	Gets rid of waste materials
	produced in the body.
Breathing	Lungs, trachea
System	Allows exchange of gases
	between blood and lungs.
Nervous	Brain, nerves, spinal cord
System	Allows the body to sense
System	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	