Life Science - Cell Organelle Research	Binder Page #
Name	Date: Period:
Please use the following link to the Biology4Kid the blanks. <u>http://www.biology4kids.com/file</u>	s website to investigate the answers to the following fill-in s/cell_main.html
Look on the right hand side of the webpage for your research.	r a list of different organelles (or cell parts) when doing
<u>Cell Membrane</u>	
1. The cell membrane is like a	with holes in it. These holes allow some
things to move and o	f the cell.
2. The cell membrane is mainly made up of	and
<u>Cell Wall</u>	
1. Cell Walls are made of	and only found in cells.
2. Cell walls help a plant keep its	They also protect the cell
membrane from tearing.	
Nucleus	
1. The is the brain of the c	cell. It helps control,
, and	<u>.</u>
2. Acell h	as a nucleus and a
cell has NO nucleus.	
3. The nuclear envelope, or as we know it the	
surrounds the nucleus and allows RNA and	proteins to pass through.
CHROMATIN 53 26 4. Chromat	tin is made of
CHROMOSOMES	THE NUCLEUS

4. When the cell is going to divide, the chromatin becomes very compact forming

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<u>Centrioles</u>

1. A centriole is a small set of			Centriole Structure Centriole Pair	
arranged in a specif	ic way.			
2. Centrioles are involv	ed in the process of	👹		
and the process of _	·	~	Microtubule Triplet Figure 1	
Growing Amino Acids	<u>Ribosomes</u>	-		
Protein Chain Riboson	1. Cells need to make	, and ribc	somes are the	
TRI		of the cell.		
	2. Ribosomes are found floatin	g in the		
££	or on the		_(type?)	
<u>Mitochondria</u>				
1. The	are the	of the	cell.	
2. They are the organelles	that take in, bre	aks them down, and cr	eate	
in the cell (in the form ATP).		ER MEMBRANE NEMBRANE	
3. You might find cells with	n several			
4. Mitochondria have	phospholipid bilayers (or m	embranes).	200	
.				
<u>Chloroplasts</u>				
1	are the food producers foun	d in	cells.	
2. Every green plant is wo	rking to convert the sun's	into		
in a process called				
3	work to break down the su	gars that the chloropla	st makes to make	
(aka – energy	y).		Pa	
Endoplasmic Reticulum		Z		
1. There are two types of		85	Contra	
(0	or ER), one is	J.J.	E.P.	
(which has ribosomes) an	d the other is	SMOOTH ER	ROUGH ER	

2. The type with ribosomes is very imported	ant in the synthesis and packaging of	
3. After being made, proteins can either	be brought to the to be	
changed or to the	to be released from the cell.	
NUCLEUS ROUGH-ER VES	ENDOPLASMIC RETICULUM AT WORK	
4. The type without ribosomes acts as a	storage organelle. They also make	
that can be used inside and outside the o	cell. Lastly, it can breakdown and	
that could dam	nage the cell. (In text book on page 70)	
<u>Golgi Complex</u>		
1. The Golgi complex is a	organelle like the ER. They are also both considered	
membrane bound organelles, meaning t	hey are made of phospholipid bilayers.	
2. The Golgi complex gathers	molecules and combines them to make molecules	
that are more A	is an example of a molecule	
that may be changed in the Golgi comp	lex.	
3. These big molecules are packaged ar	nd sent around the cell in	
4. The Golgi complex is a series of memb	ranes in shapes like	
<u>Vacuoles</u>		
1. Vacuoles are	found in a cell.	
2. Vacuoles are much larger in		
cells than in cells	FULL EMPTY	
3. Vacuoles store,	VACUOLE VACUOLE	
4. Vacuoles can even store	to protect the cell from contamination.	
5. When a plant droops, the	are shrinking, NOT the cytoplasm.	

Microtubules & Microfilaments

1. Together microtubules and microfilaments make

