

4. Who am I? - identify the cell part - use terms from pages 10 - 13. Some terms may be used more than once.

- a) I store water and nutrients. vacuole
- b) I make up most of the cell. cytoplasm
- c) I contain genetic information. nucleus
- d) I am a food factory found only in plant cells. chloroplasts
- e) I am lots of tiny hairs like structures. cilia
- f) I hold the contents of the cell in place. cell membrane
- g) I help store wastes and move excess wastes and water out of the cell. \_\_\_\_\_
- h) I am the control center of the cell. nucleus
- i) I am the watery fluid where most chemical activities take place. cytoplasm
- j) I am larger in a plant cell than in an animal cell. vacuole
- k) I support and protect the plant cell. cell wall
- m) I use light from the sun and combine water and carbon dioxide to make food. chloroplast or chlorophyll
- n) I am a long whip like tail. flagella
- o) In eukaryotic cells I have a membrane, I don't in prokaryotic cells. nucleus
- p) I am found inside the nucleus. DNA
- q) I contain chlorophyll. chloroplast
- r) I am made up of DNA. chromatin / chromosomes
- s) I am made up of a double layer of fat molecules and act like a gate keeper. cell membrane
- t) I surround the nucleus and keep its contents separated from the cytoplasm. nuclear membrane
- u) The cell wall and I are not found in animal cells. chloroplast

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5. Do Check Your Understanding on page 13. Do numbers 2, 3, 4, and 6. Write in full sentences. (for 5, 4, 6)

2.	Similarities	Differences
3.		
4.		
6.		

4

2. Compare and contrast – in the table below are sets of two terms. Explain how terms are the same on one hand and different on the other.

Terms	How they are the same.	How they are different.
Eukaryotic and prokaryotic cells	<ul style="list-style-type: none"> <li>- both have DNA</li> <li>- both have ribosomes</li> <li>- both have cell membrane</li> </ul>	Prokaryotic - no nucleus - no membrane-bound organelles - primitive - small Euk - larger more organelles
Cell membrane and cell wall	offer structure + support + protection	cell wall only in plants
Cilia and flagellum	both can be used for movement	- cilia are short + usually plentiful - flagella are longer
Nuclear membrane (see figure 1 page 11) and cell membrane	hold contents	- Nuc Membrane has larger pores. Around Nucleus - C.M: around entire cell
Animal cell and plant cell	both have mitochondria, nuc, DNA,	Only plants have chloroplasts + cell wall

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Colour Me

3. In the space below draw, colour, and label an animal cell (figure 1) and a plant cell (figure 3).