Cellular Organelles

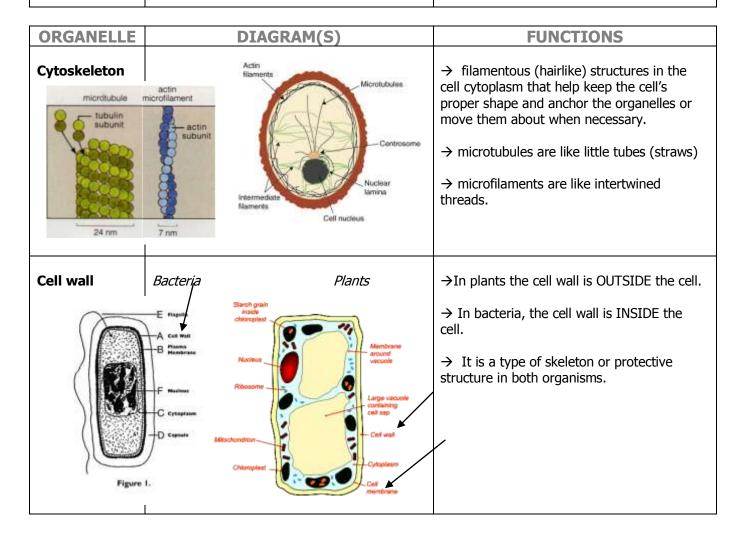
Biology 12 Ms.Mazurkewich Name:
Block:
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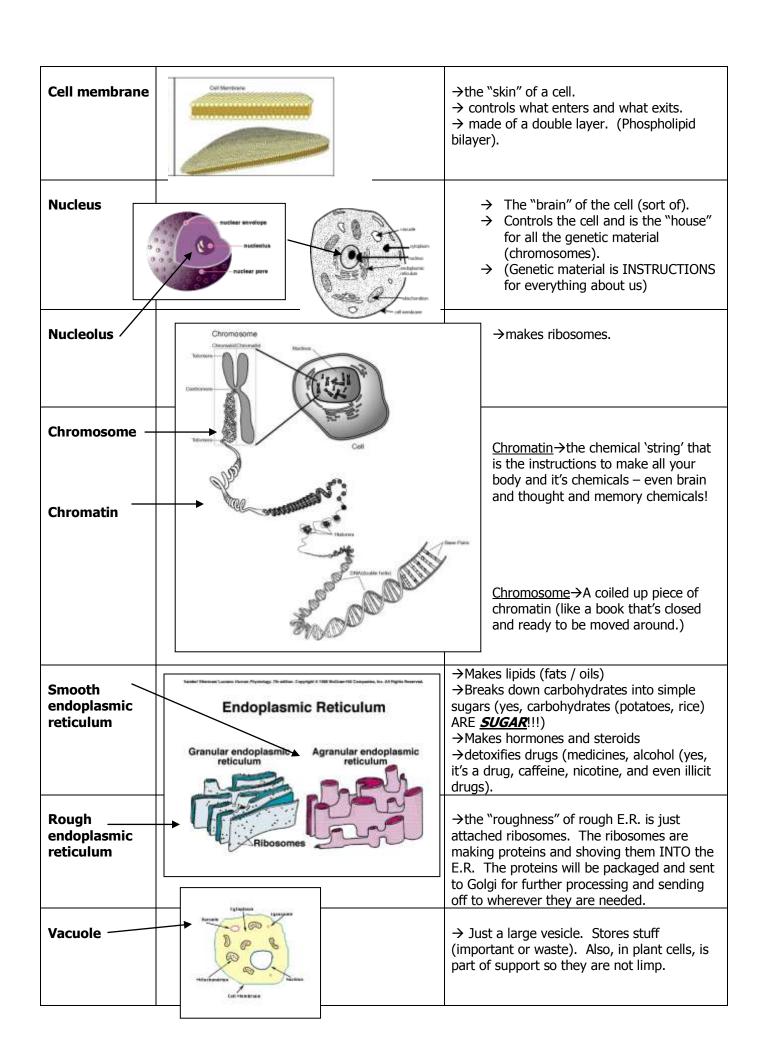
the structure a diametion of each of

Instructions: Use your textbook **and other resources** (!!) to find the structure at the organelles in the table below.

ORGANELLE	DIAGRAM(S)	FUNCTIONS
Ribosome —	Although it looks like only one tiny ball in your diagrams, it is actually two subunits stuck together.	→Makes protein
Golgi	Flattened sacs (look like pancakes). One side faces nucleus, other side faces cell membrane.	→Receive vesicles (small bags of fluid) and either store or modify the chemicals. They also send stuff to it's proper destination inside the cell or out. They are like a miniature mail processing factory.
Centriole	9 sets of triplet mictotubules all stuck in a ring. Animal cells only, not plant cells. 2 per cell	 →Make up the base of cilia and flagella. →Might be used to organize microtubules (cell skeleton). →Pulls organelle duplicates apart during cell splitting.
Lysosome	Plasma membrane Food vacuole Engulfment of particle Lysosome engulfing damaged organelle (containing in active hydrolytic enzymes) Rough ER	→Small sack of enzymes that digest stuff (food particles or cell itself when it dies). →probably made by Golgi.
Flagella	Flagella	→A long, hairlike projection that is used to move the cell.

Cilia →Short hairlike projections that are used to move the cell or to move materials past the cell (if it can't move). → move in oarlike motion (like 100 oars rowing a huge boat) **Chloroplast** → Contains chlorophyll (the green chemical in plants. → The place where photosynthesis takes place (using light energy to produce food for the plant). Energy + CO_2 + $H_2O \rightarrow carbohydrates$ (food) + O_2 Mitochondria → produce energy (like electricity) for the cell to move and carry on it's life processes. → Uses food (carbohydrates) to make the energy. Carbohydrates (food) + $O_2 \rightarrow Energy + CO_2 + H_2O$





Go to www.google.ca and click images.	Then type in the name of any organelle you wish to see.	You'll be amazed!!