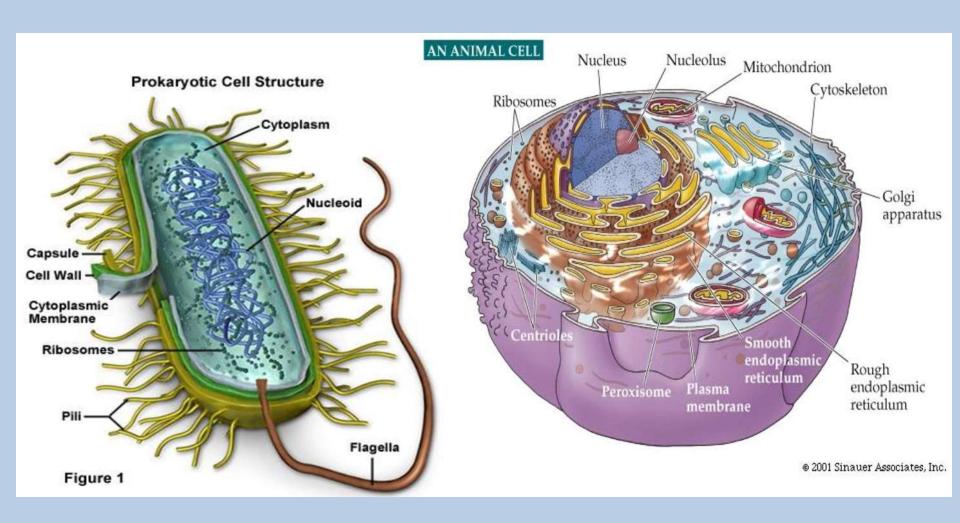


- 1. What are the two kinds of cells?
- 2. What are differences between these two cell types?
- 3. How is a cell a system?
- 4. What are the "support beams" of a cell?
- 5. WHY is the mitochondria the "powerhouse" of the cell?
- 6. What do the "workers" of the cell make?

Prokaryotic vs Eukaryotic



Egg Lab

- Next week we are start a lab using eggs
- When dismissed:
 - Get with a lab group of 4
 - Decide who is bringing in at least one egg for your group

Get out the interactivity!

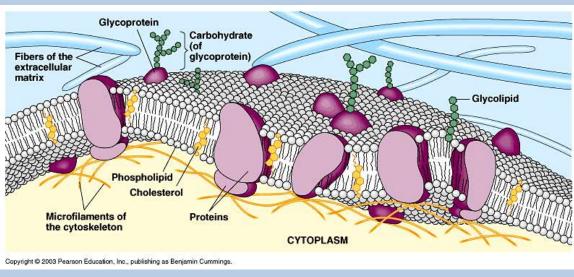
BRAIN BREAK

 Which 6 organelles give every eukaryotic cell structure and security?

Important Part:

SECURITY PERIMETER = CELL MEMBRANE

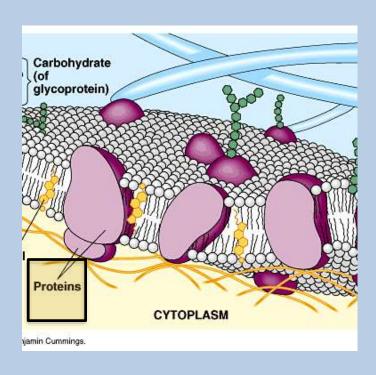




Important Part:

DOORS = MEMBRANE PROTEINS

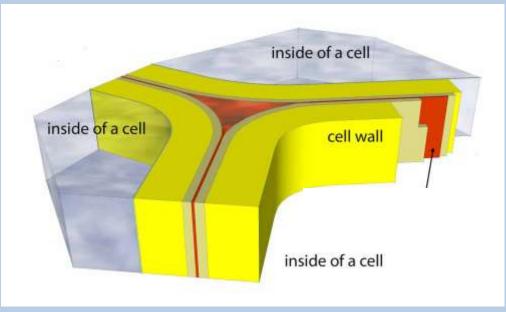




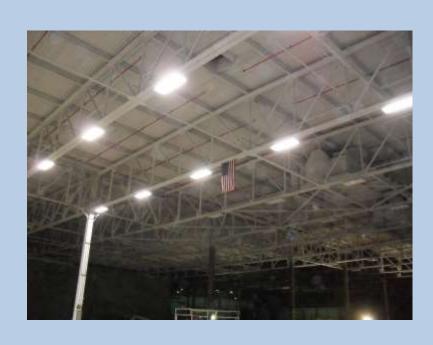
Important Part:

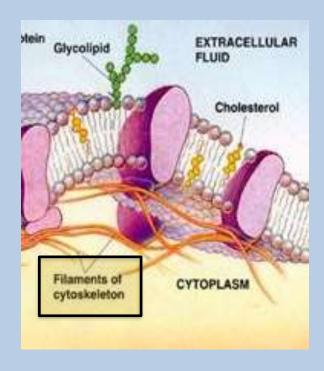
WALLS = CELL WALL





 Important Part: SUPPORT BEAMS = CYTOSKELETON





 Important Part: SECURITY GUARDS = LYSOSOMES

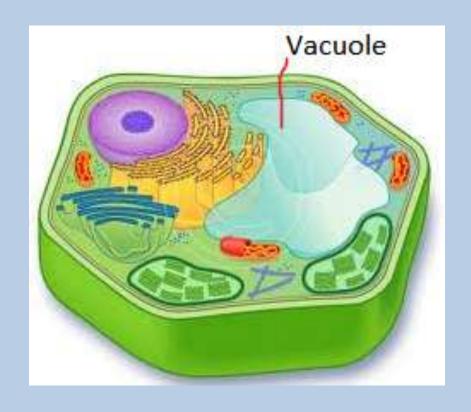




Important Part:

STORAGE = VACUOLES



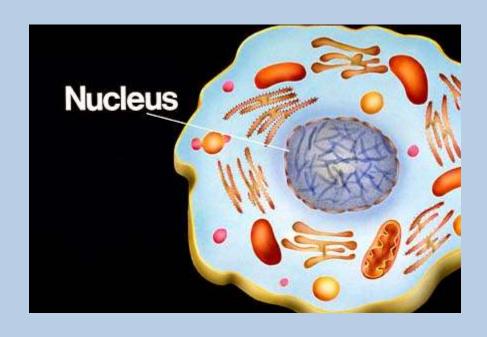


BRAIN BREAK

 Which 3 things give every eukaryotic cell instructions?

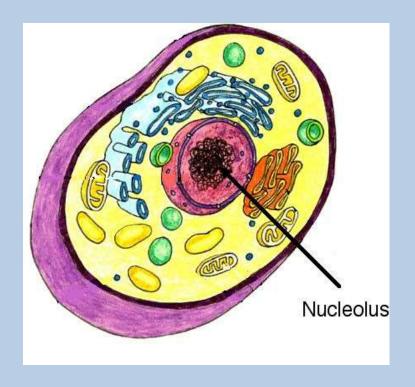
Important Part:
 MANAGER OFFICE = NUCLEUS





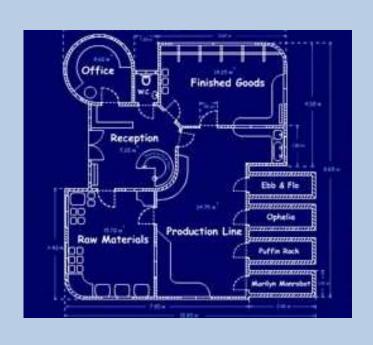
 Important Part: LOCKING CABINET = NUCLEOLUS

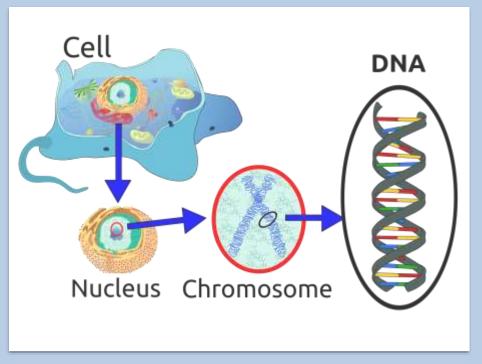




Important Part:

BLUEPRINTS = DNA





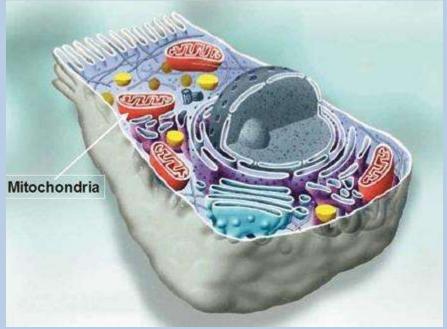
BRAIN BREAK

Which 2 organelles give eukaryotic cells energy?

Important Part:

ENERGY SOURCE = MITOCHONDRION

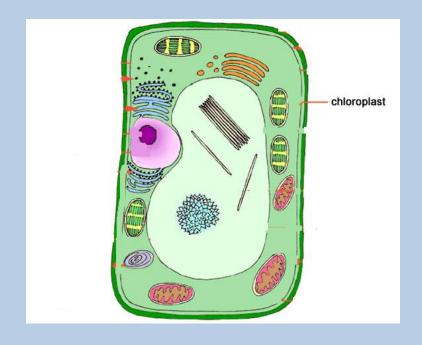




 Important Part: ENERGY SOURCE (SOLAR PANELS)

CHLOROPLAST





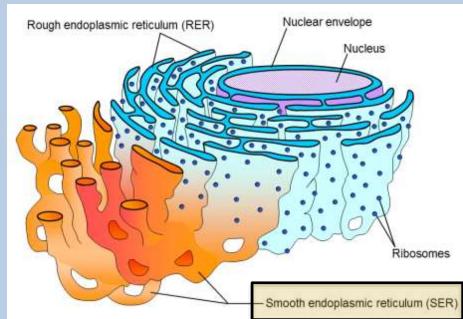
BRAIN BREAK

Which 5 organelles help eukaryotic cells function?

 Important Part: AUTOMATED ASSEMBLY LINE

SMOOTH ENDOPLASMIC RETICULUM

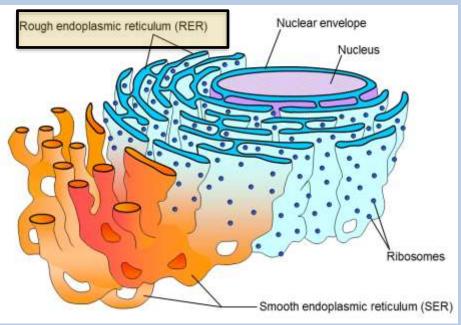




 Important Part: MANUAL ASSEMBLY LINE

ROUGH ENDOPLASMIC RETICULUM

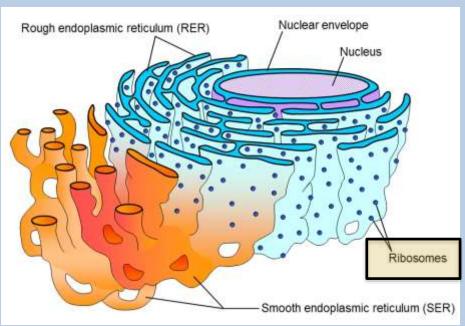




Important Part:

ASSEMBLY WORKERS = RIBOSOMES



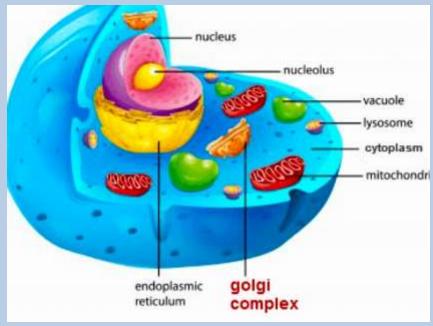


Important Part:

SORTING, PROCESSING AND PACKAGING

GOLGI APPARATUS

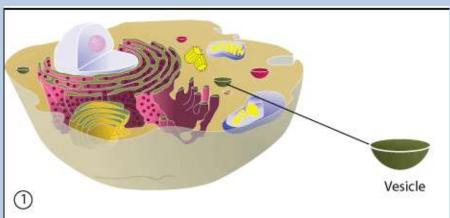




Important Part:

INTERNAL TRANSPORTATION (carts or conveyor belts) = <u>VESICLES</u>



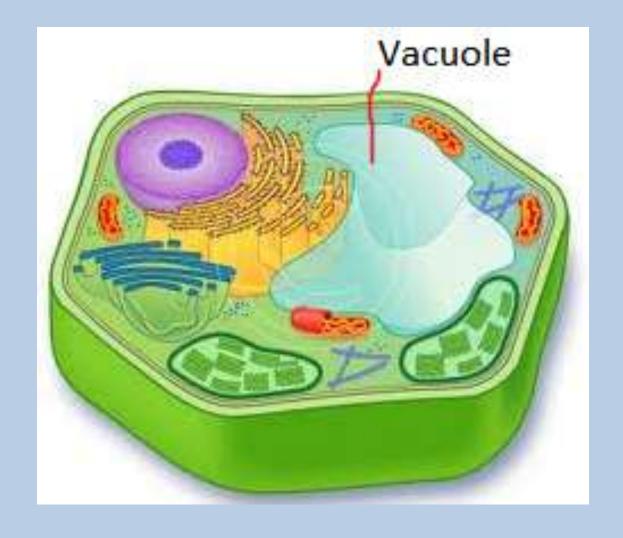


BRAIN BREAK

 Which organelles are ONLY IN PLANT CELLS

Plant Cell STORAGE = CENTRAL VACUOLE





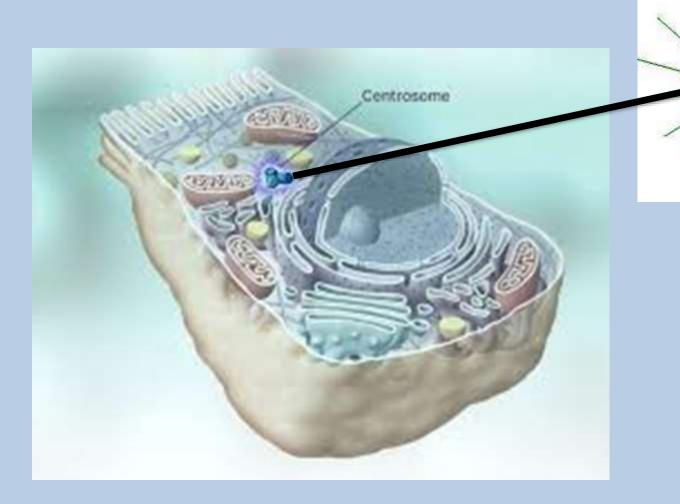
BRAIN BREAK

 Which organelles are ONLY IN ANIMAL CELLS?

Animal Cell CENTRIOLE

Microtubule

centrosome



Photosynthetic Animals?!







- Around the room there are 16 microscopes set up
 - Go around the room and make observations of each type of cell
 - On notebook page 35, for each station:
 - Write the tissue type
 - Sketch a picture of what you are observing
 - Describe the cells;
 - How close together are they?
 - What shape do they have?

• Through a microscope animal cells look like this... What organelles can you see?



- On notebook page 35 for each station:
 - 1. Write the tissue type
 - Sketch a picture of what you are observing
 - Describe the cells;
 - How close together are they?
 - What shape do they have?

 On notebook page 35 for each station (16 total):

STATION	TISSUE	SKETCH	DESCRIPTION

WHEN YOU ARE DONE MAKE SURE YOUR NOTEBOOK IS CAUGHT UP:

Page	Title of Page	Check	Page	Title of Page	Check
24	Yellowstone Ecosystem		25	Algae Lab	
26	Unit 2 Wrap-up		27	Unit 3 Cover Sheet	
28	5.3 Simulation: Investigate Population Growth		29	Demography Notes	
30	Ecological Footprints		31	Human Causes of Global Change	
32	Human Impact Project		33	Unit 4 Cover Sheet	
34	Cell Notes and 8.1 Interactivity		35	Comparative Cell Structure and 8.4 Interactivity	