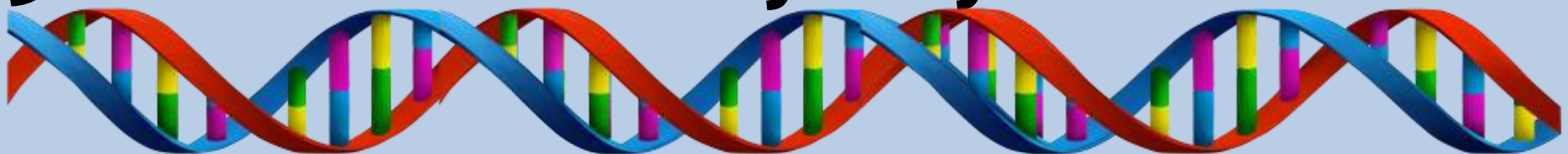


- 1. What are the 4 kinds of macromolecules of life?**
- 2. Why are cells called “cells”?**
- 3. Is a scientific theory significant?**
- 4. What are the three parts of cell theory?**
- 5. How is a factory a system?**



Build a Factory

- **Yesterday you designed a factory in groups**
- **Today you will share your factory with other groups**
- **The prize will be awarded on Friday**

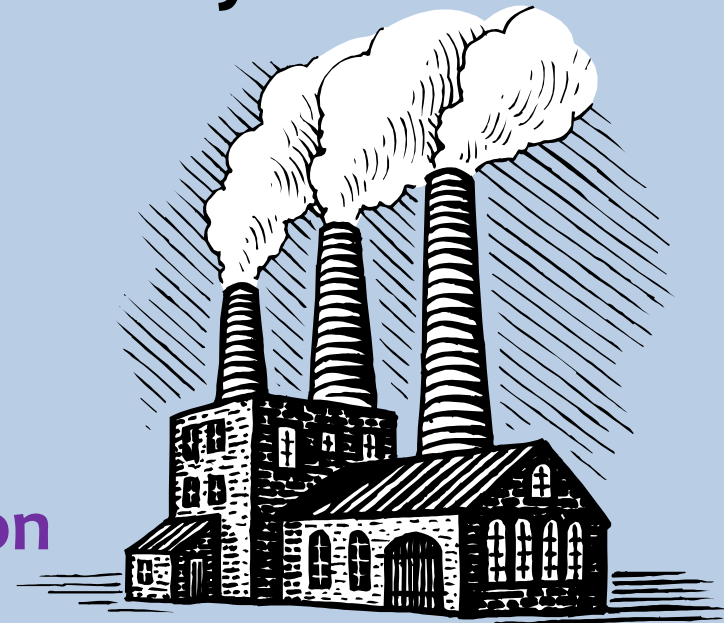
Build a Factory

- You will return to your group
- Put the finishing touches on your factory
- Together as a group you will briefly **review the important parts of your factory** (10 min)



Build a Factory

- **Task 1:**
 - **Brainstorm a list of all of things needed in a factory**
- **Task 2:**
 - **Draw a floor plan of this factory with all parts**
- **Task 3:**
 - **Label the parts and list their functions**
- **Factories will be judged based on functionality and aesthetics**

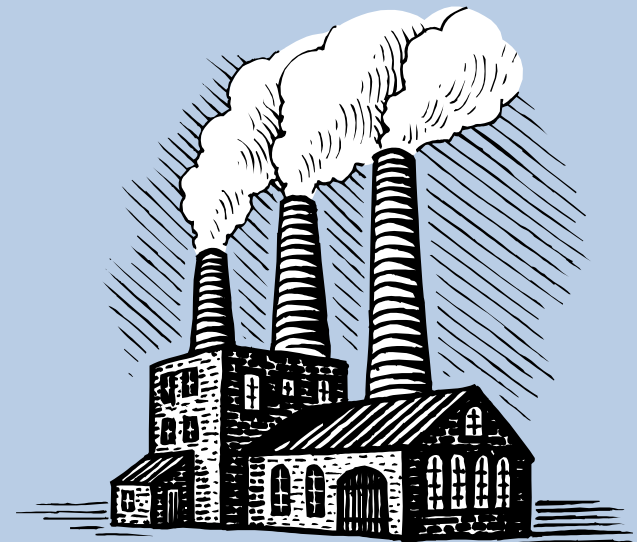


Build a Factory

- Gather as a big group with the rest of your letter (A & 2E, B, C, D & 8E)
- Take turns sharing your factories, highlighting the important pieces and their functions (verbally)
- Make a list of important pieces the factories had in common (8 min)

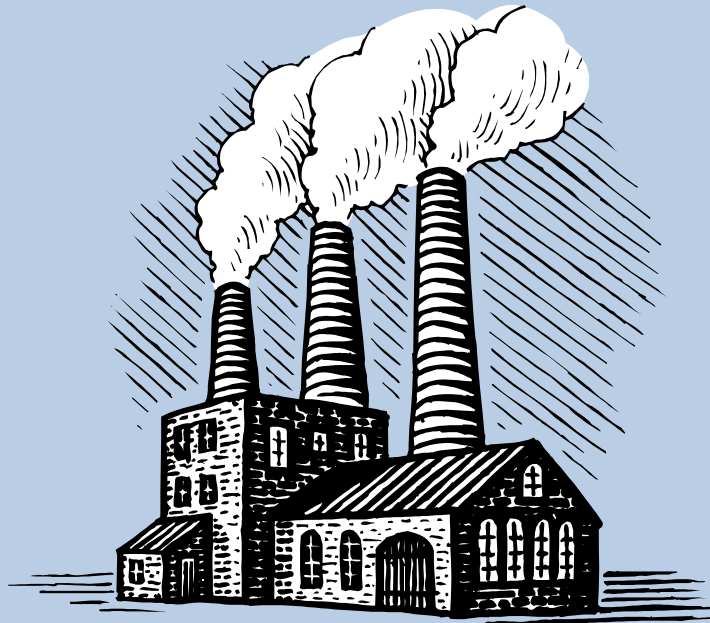
Build a Factory

- Go back to your assigned seats
- Share with your table group the list of important pieces and functions that your factories had in common (1 min)

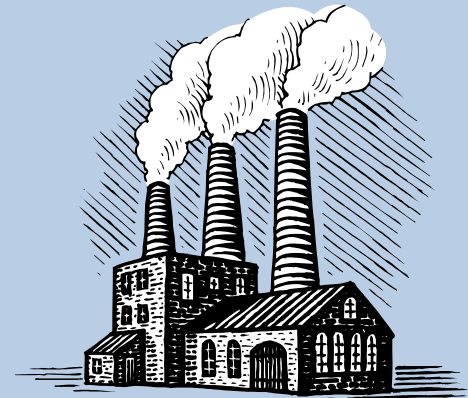


Build a Factory

- Every group will share at least one important part; **BE PREPARED**



Build a Factory



Cell Parts

- Open to **page 34** and format it into three columns:

Factory

Cell Part

Function

Build a Factory

- Important Part: SECURITY PERIMETER



Build a Factory

- Important Part: WALLS



Build a Factory

- **Important Part: DOORS**



Build a Factory

- **Important Part: SUPPORT BEAMS**



Build a Factory

- Important Part: **SECURITY GUARDS**



Build a Factory

- Important Part: STORAGE



Build a Factory

- Important Part: **MANAGER OFFICE**



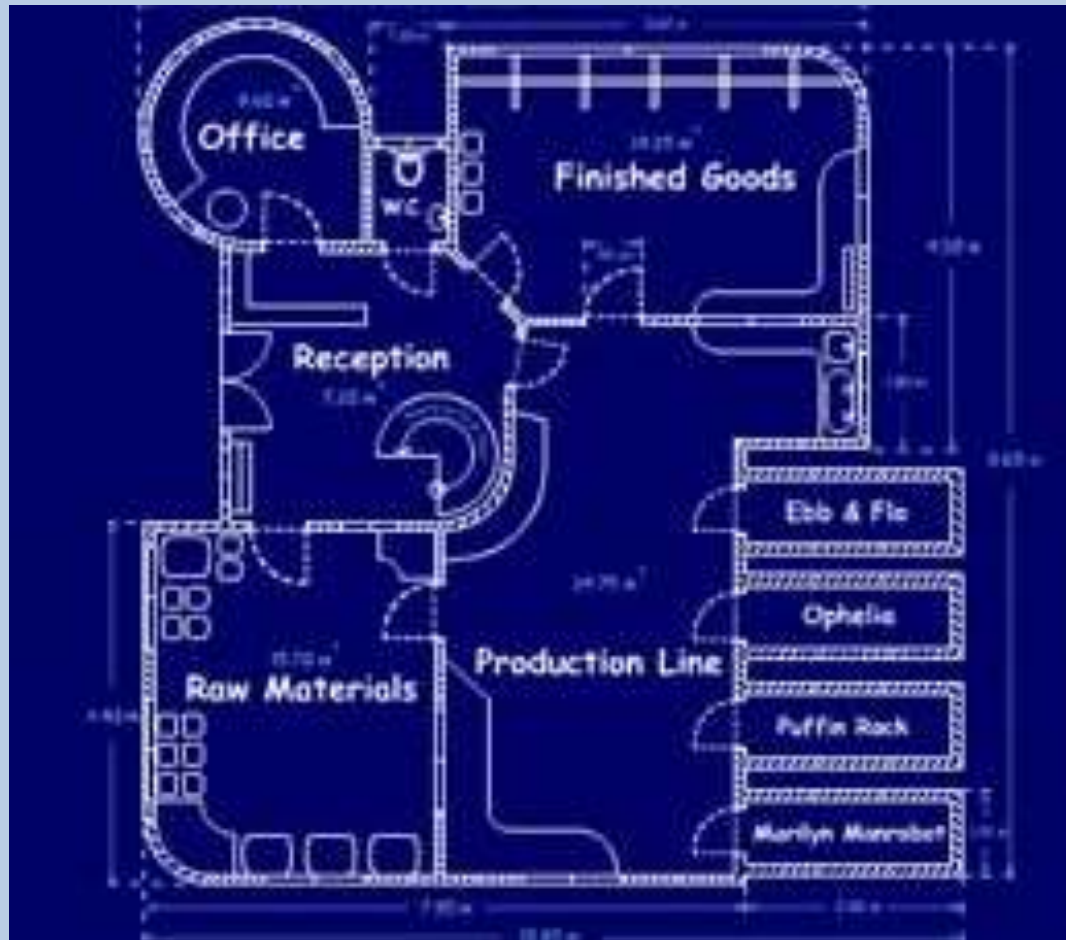
Build a Factory

- Important Part: **LOCKING CABINET**



Build a Factory

- Important Part: BLUEPRINTS



Build a Factory

- Important Part: ENERGY SOURCE



Build a Factory

- Important Part: ENERGY SOURCE (SOLAR PANELS)



Build a Factory

- Important Part: **AUTOMATED ASSEMBLY LINE**



Build a Factory

- Important Part: **MANUAL ASSEMBLY LINE**



Build a Factory

- Important Part: **ASSEMBLY WORKERS**



Build a Factory

- Important Part: SORTING, PROCESSING AND PACKAGING



Build a Factory

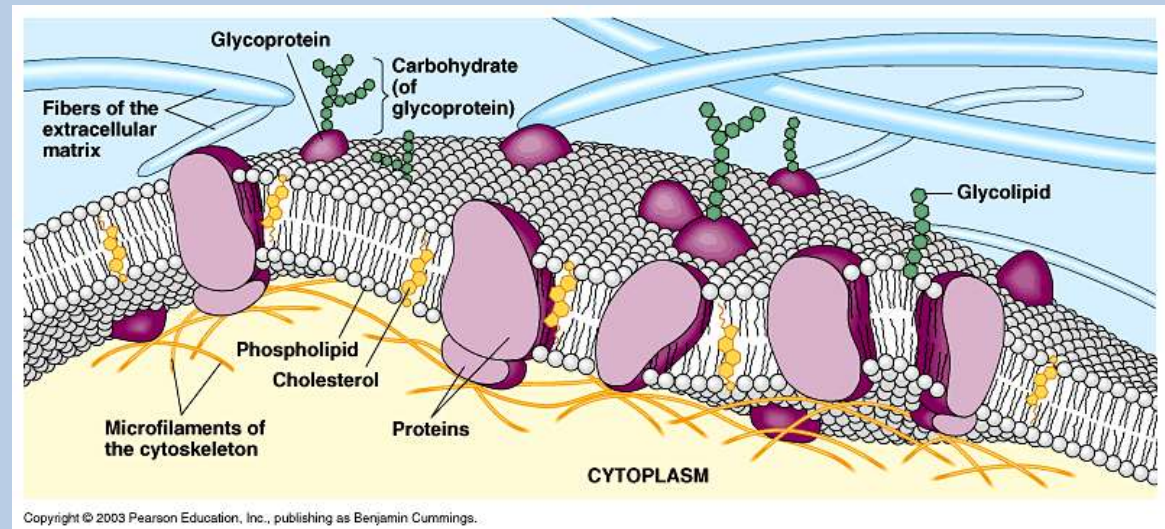
- Important Part: INTERNAL TRANSPORTATION (carts or conveyor belts)



Build a Factory

- Important Part:

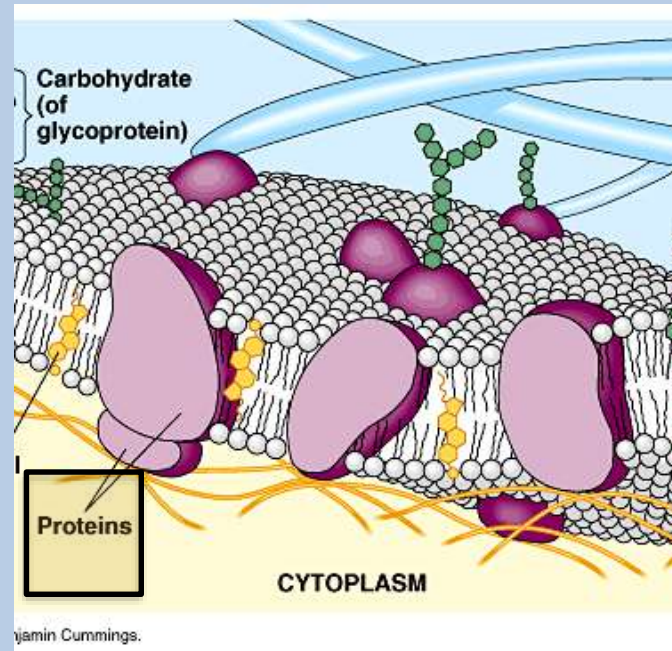
SECURITY PERIMETER = CELL MEMBRANE



Build a Factory

- Important Part:

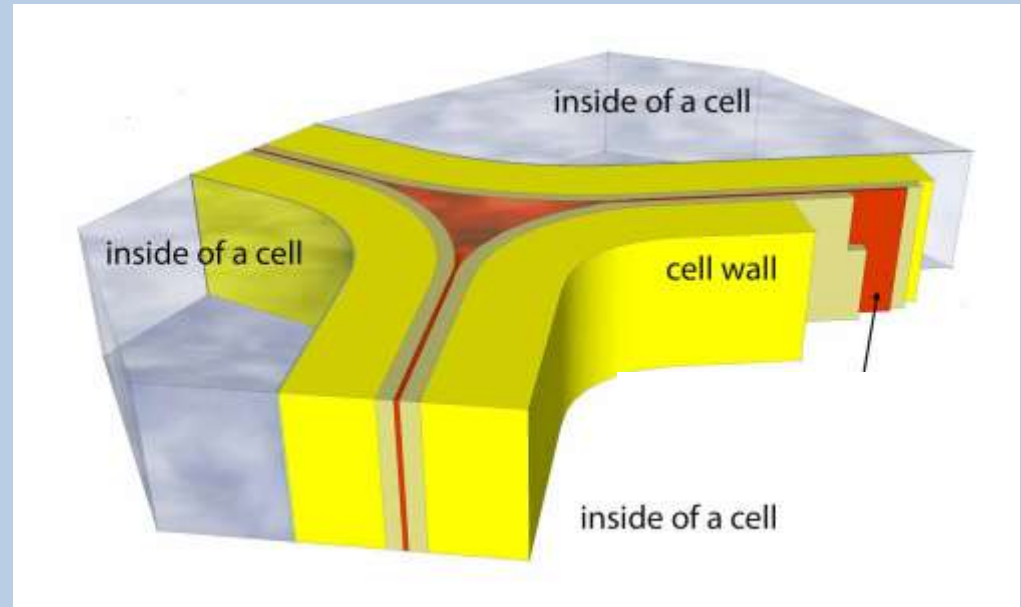
DOORS = MEMBRANE PROTEINS



Build a Factory

- Important Part:

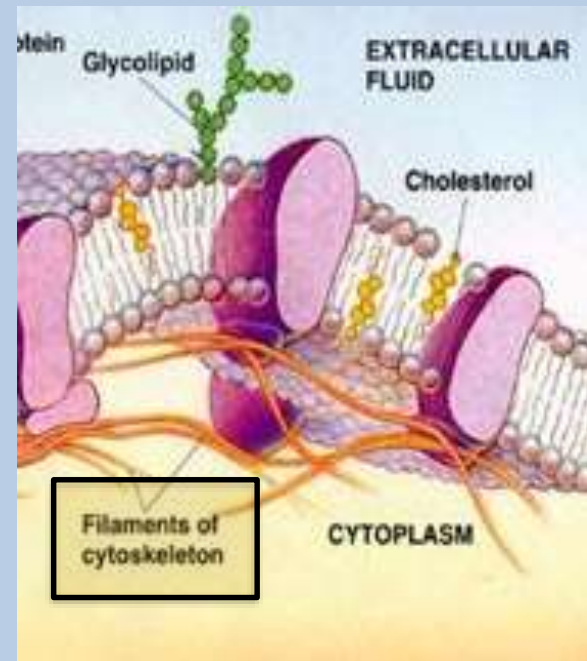
WALLS = CELL WALL



Build a Factory

- Important Part:

SUPPORT BEAMS = CYTOSKELETON



Build a Factory

- Important Part:

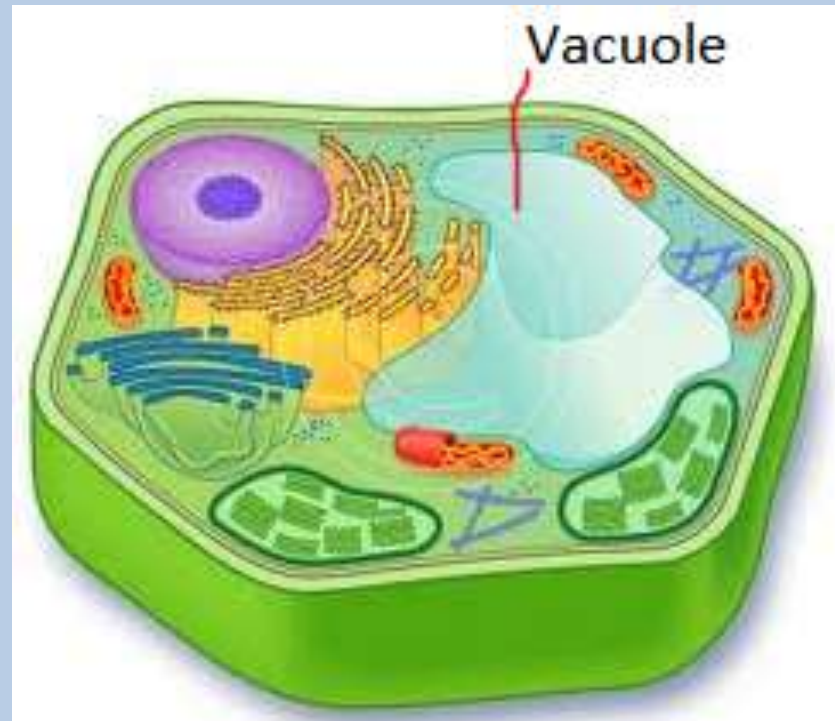
SECURITY GUARDS = LYSOSOMES



Build a Factory

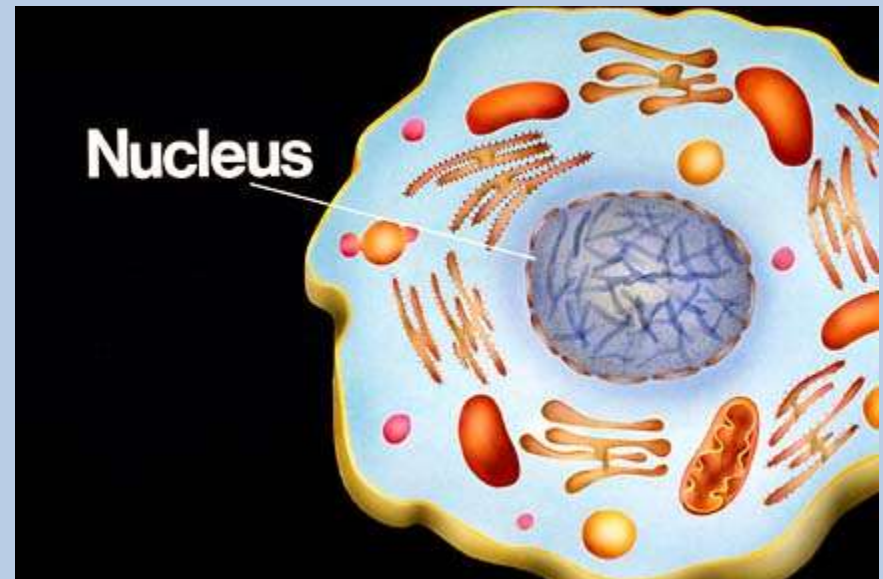
- Important Part:

STORAGE = VACUOLES



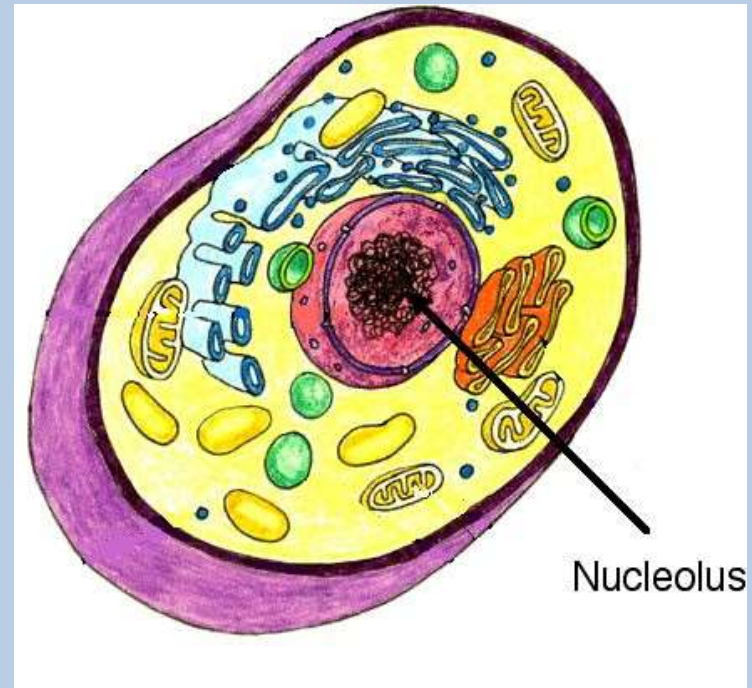
Build a Factory

- Important Part:
MANAGER OFFICE = NUCLEUS



Build a Factory

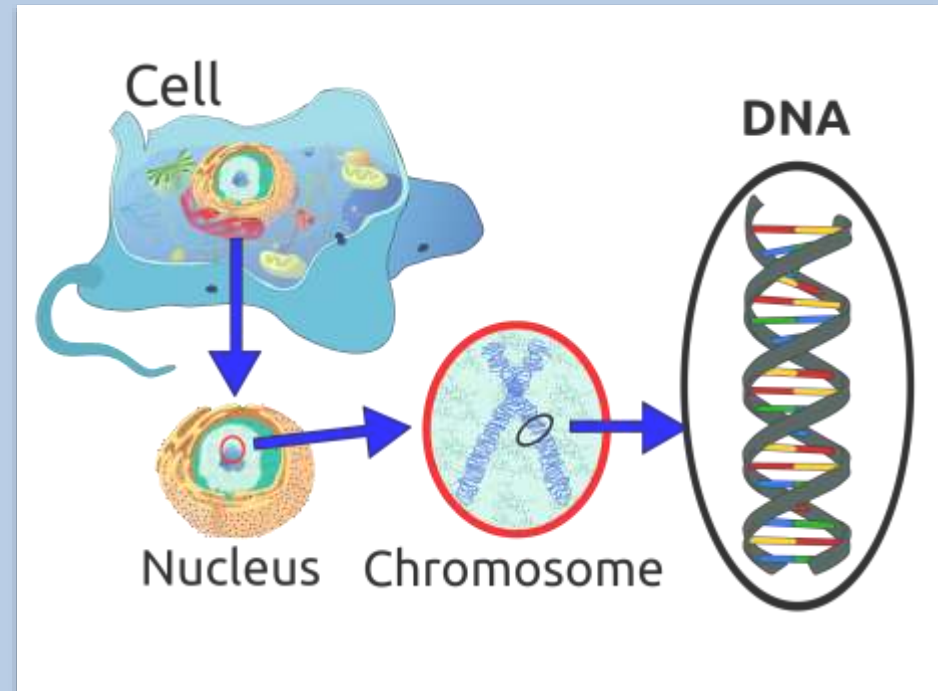
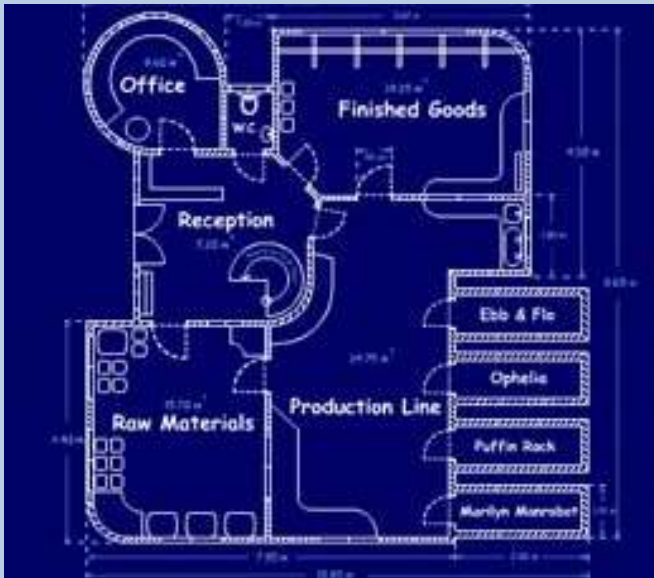
- Important Part:
LOCKING CABINET = NUCLEOLUS



Build a Factory

- Important Part:

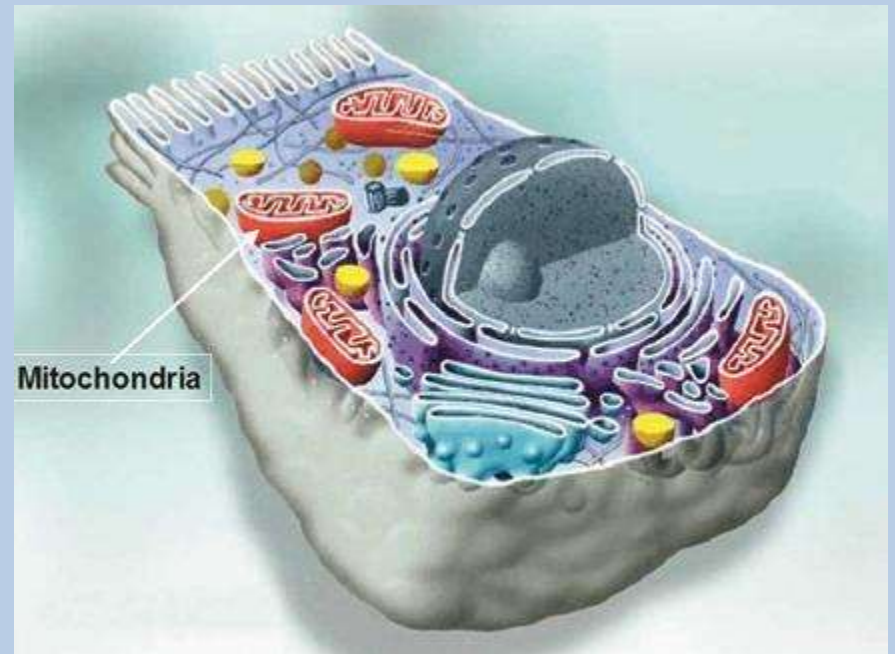
BLUEPRINTS = DNA



Build a Factory

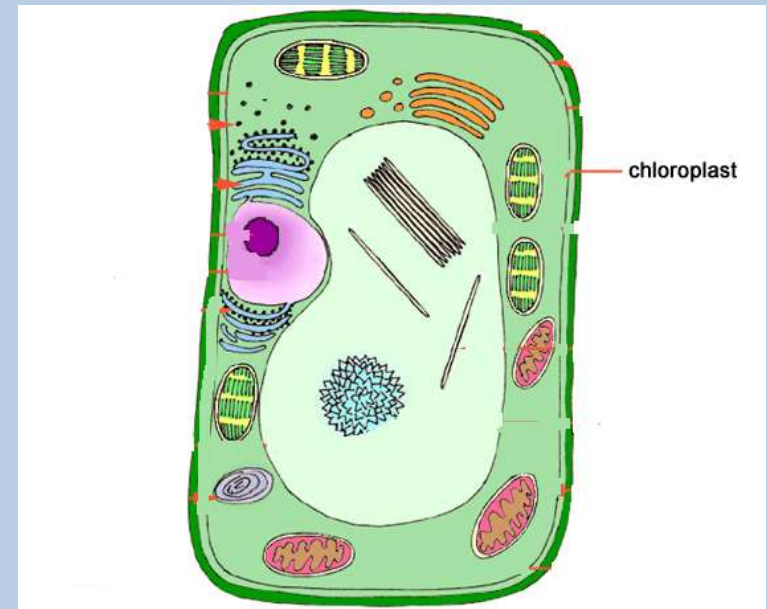
- Important Part:

ENERGY SOURCE = MITOCHONDRION



Build a Factory

- Important Part:
ENERGY SOURCE (SOLAR PANELS)
=
CHLOROPLAST



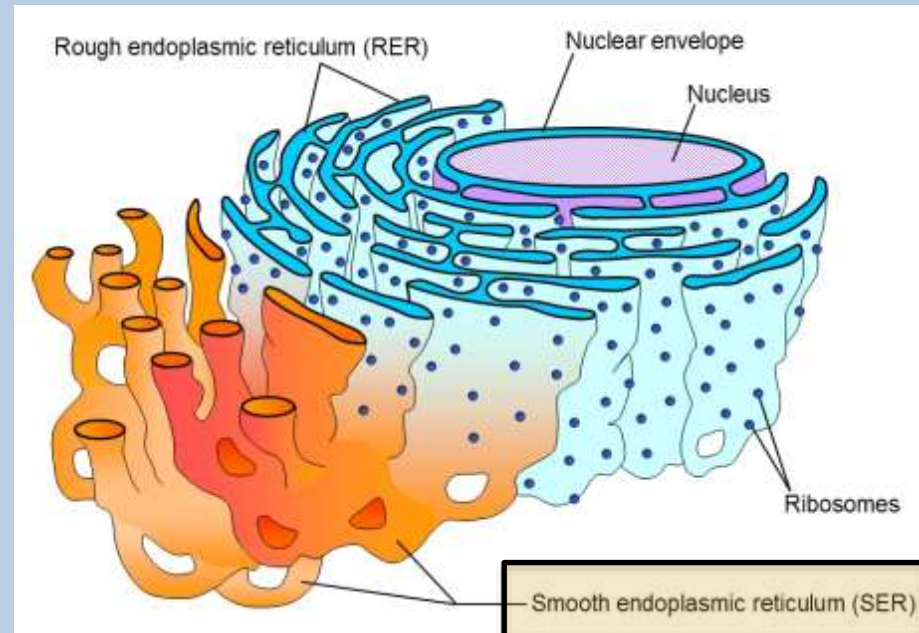
Build a Factory

- Important Part:

AUTOMATED ASSEMBLY LINE

=

SMOOTH ENDOPLASMIC RETICULUM



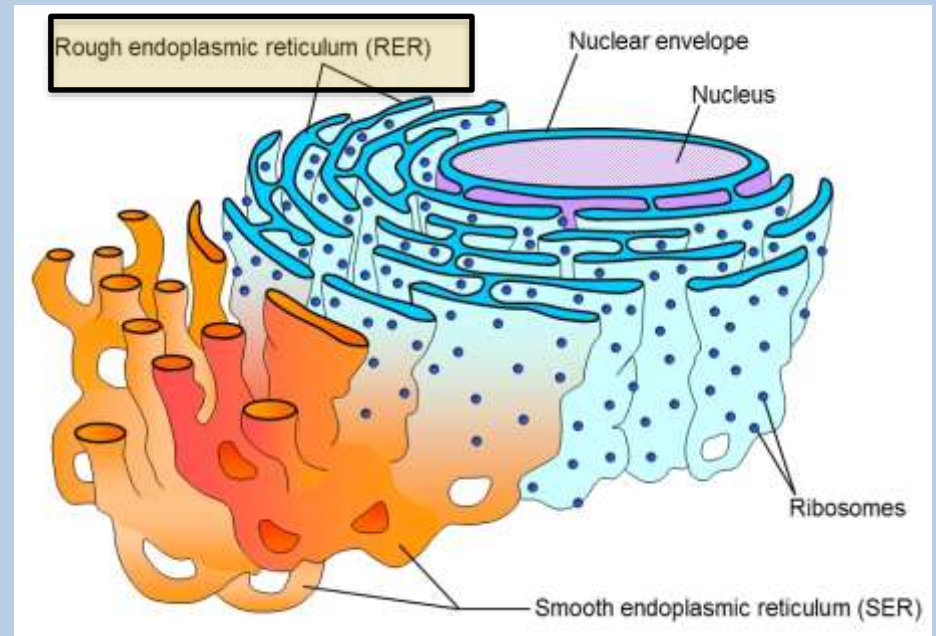
Build a Factory

- Important Part:

MANUAL ASSEMBLY LINE

=

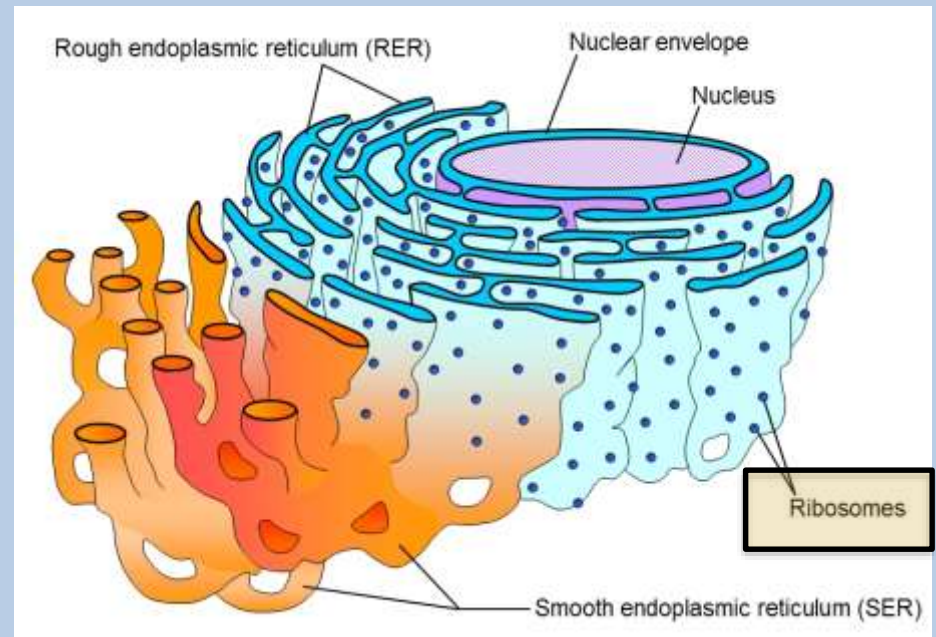
ROUGH ENDOPLASMIC RETICULUM



Build a Factory

- Important Part:

ASSEMBLY WORKERS = RIBOSOMES



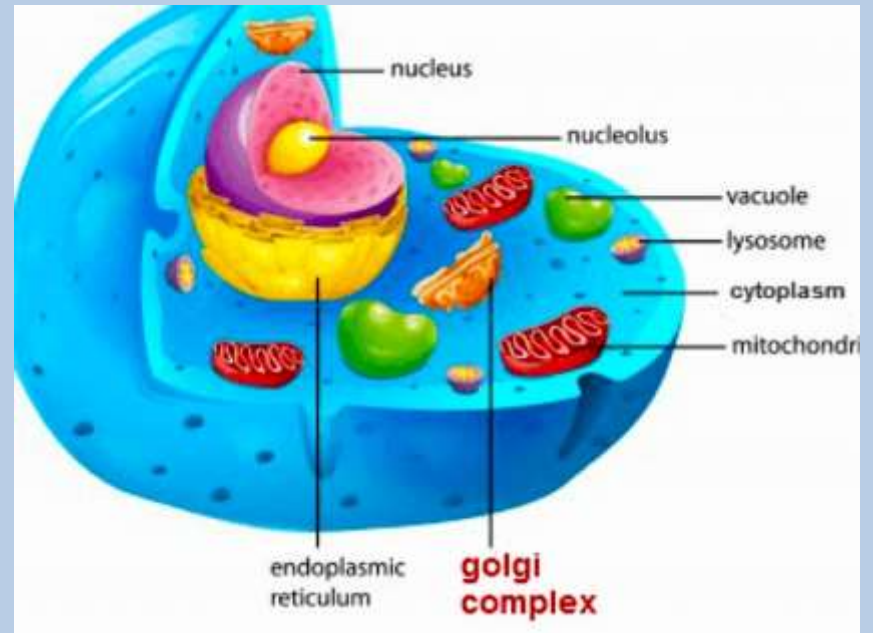
Build a Factory

- Important Part:

SORTING, PROCESSING AND PACKAGING

=

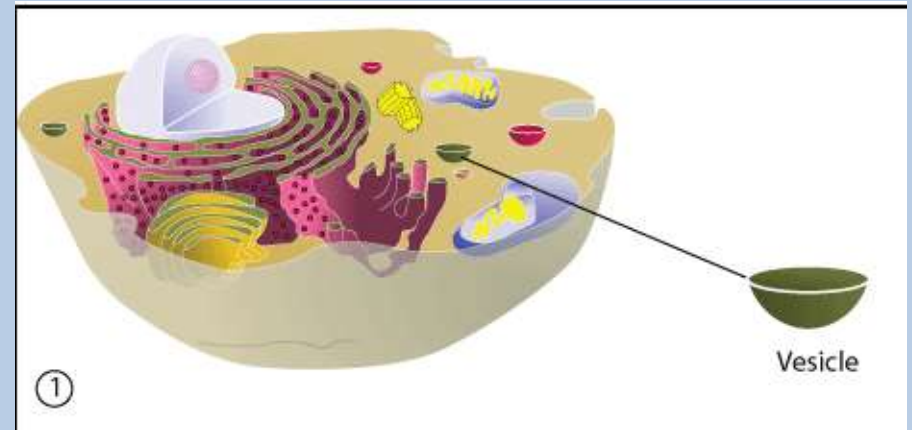
GOLGI APPARATUS



Build a Factory

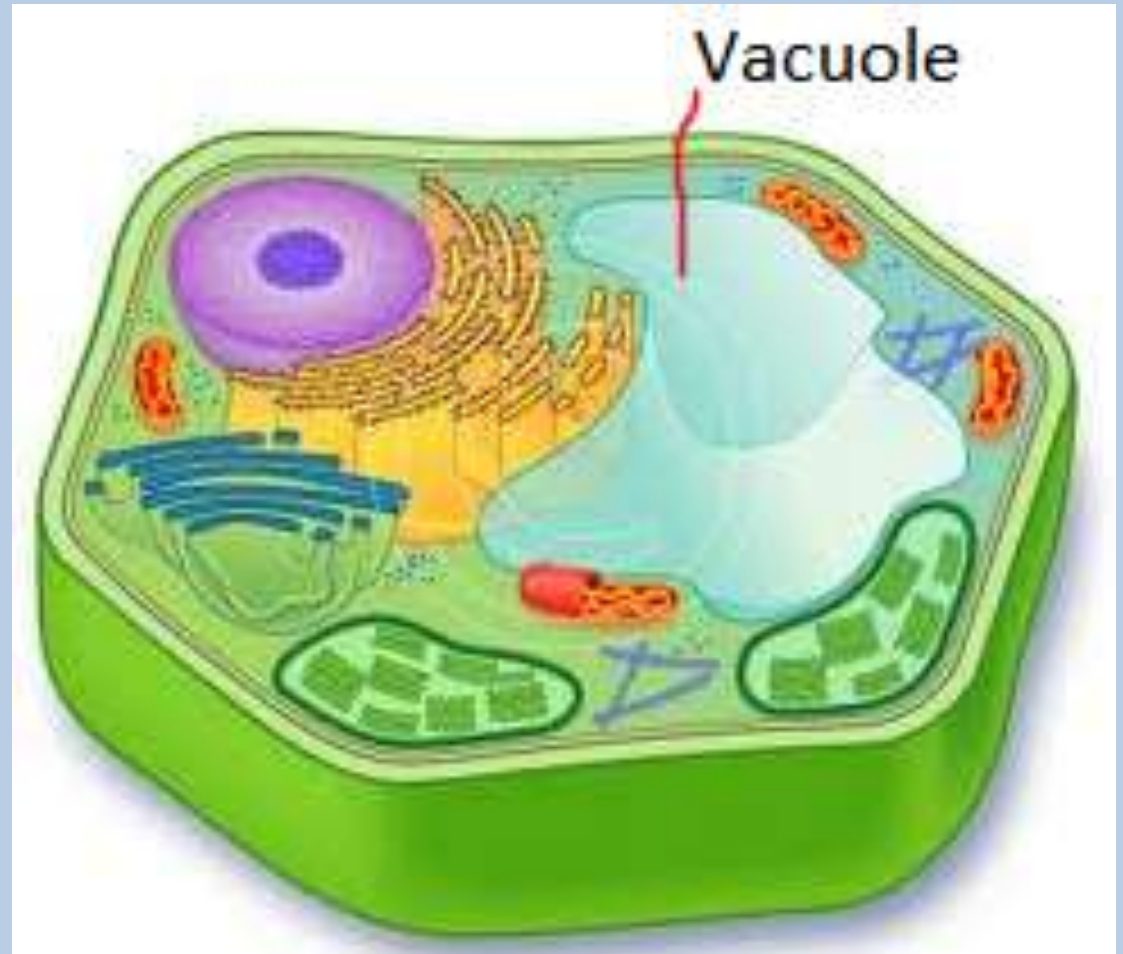
- Important Part:

INTERNAL TRANSPORTATION (carts or conveyor belts) = VESICLES



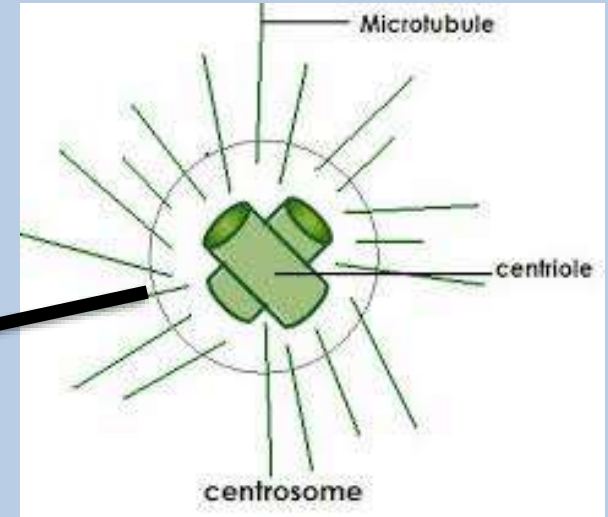
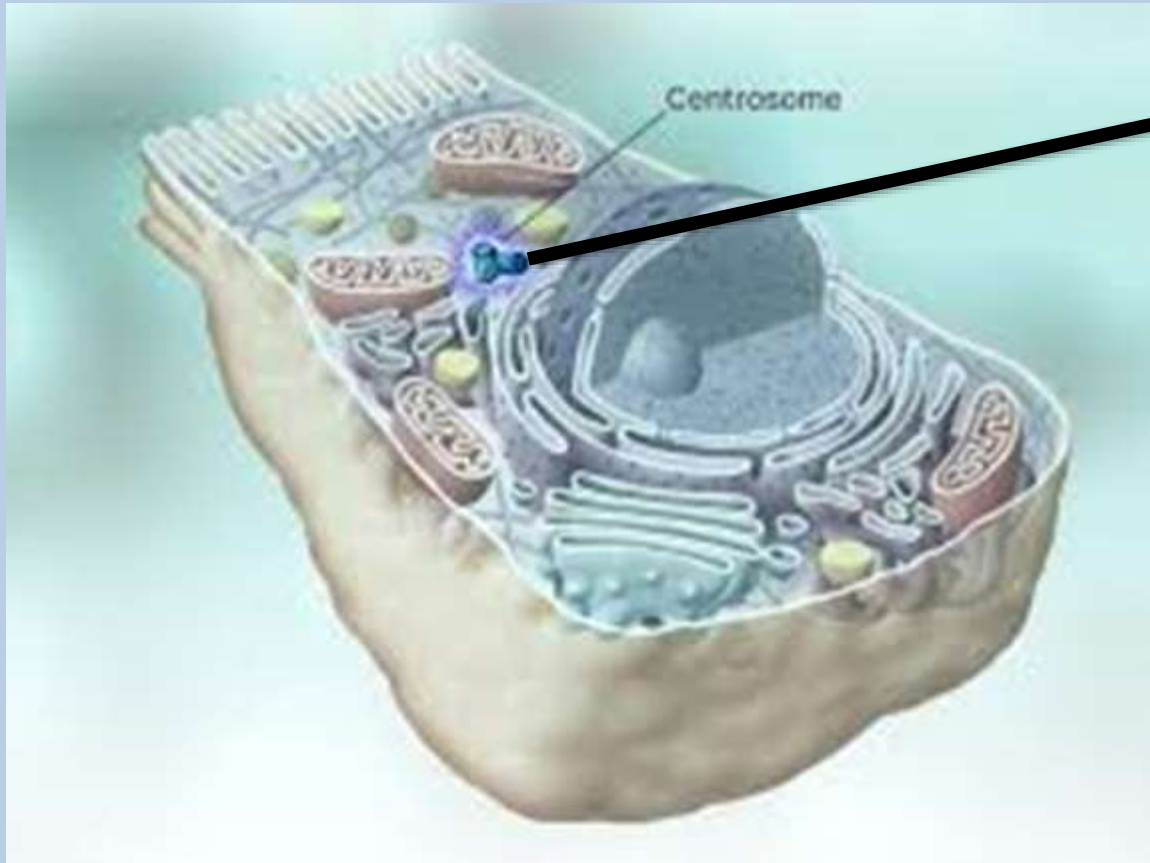
Plant Cell

STORAGE = CENTRAL VACUOLE



Animal Cell

CENTRIOLE



Photosynthetic Animals?!



Cells

- <https://www.youtube.com/watch?v=-zafJKbMPA8>

Cells

- Complete the interactivity
- Make sure you click on the orange heading on realize

