

**Five parts of an animal cell that you need to know**

**1. cell membrane**

Holds the cell's shape and allows some substances to pass through

**2. cytoplasm**

A jellylike material in which the organelles are located

**3. nucleus**

Controls the functions of the cell

**4. mitochondria**

Converts energy for the cell

**5. vacuoles**

Stores nutrients, water, or waste

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**cytoplasm**

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**nucleus**

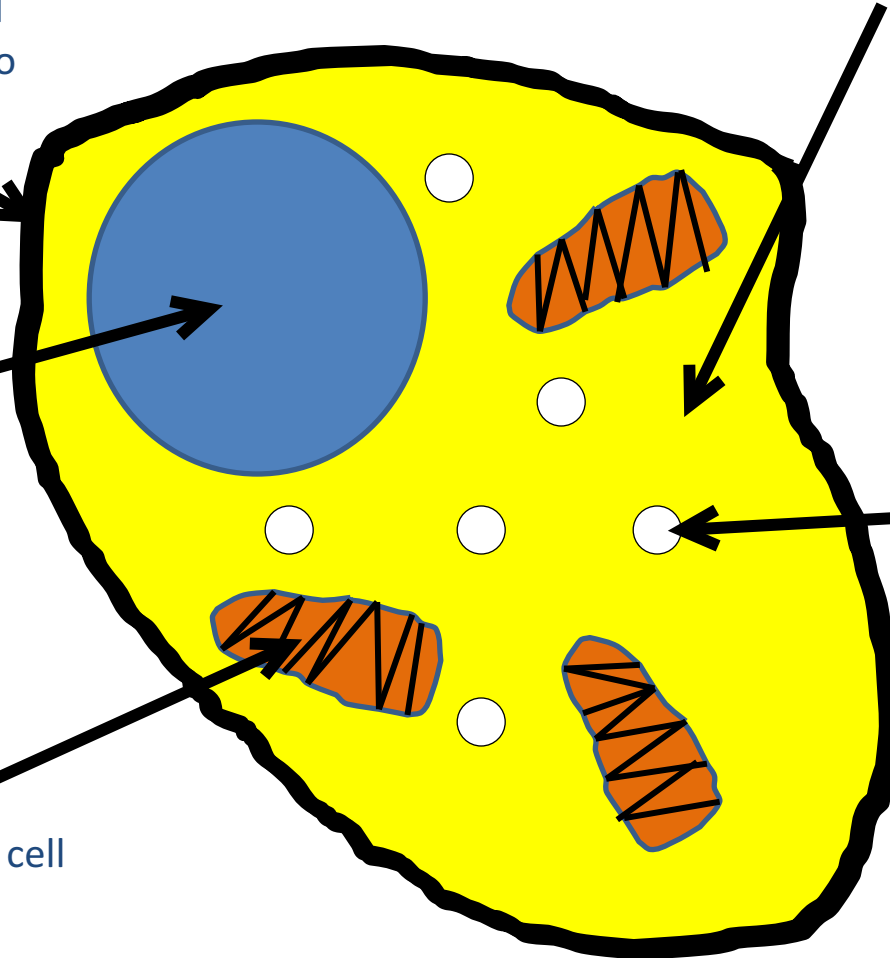
Controls the functions of the cell

**vacuoles**

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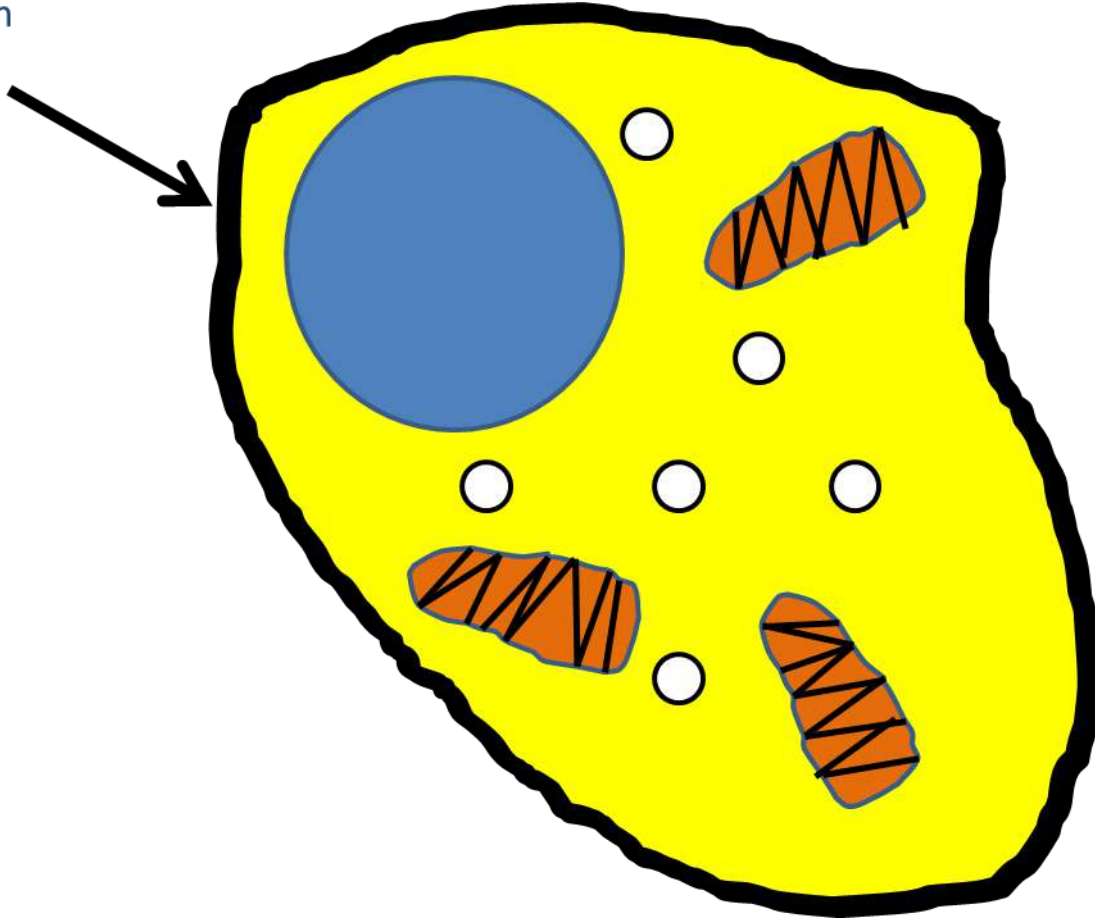
**mitochondria**

Converts energy for the cell



## cell membrane

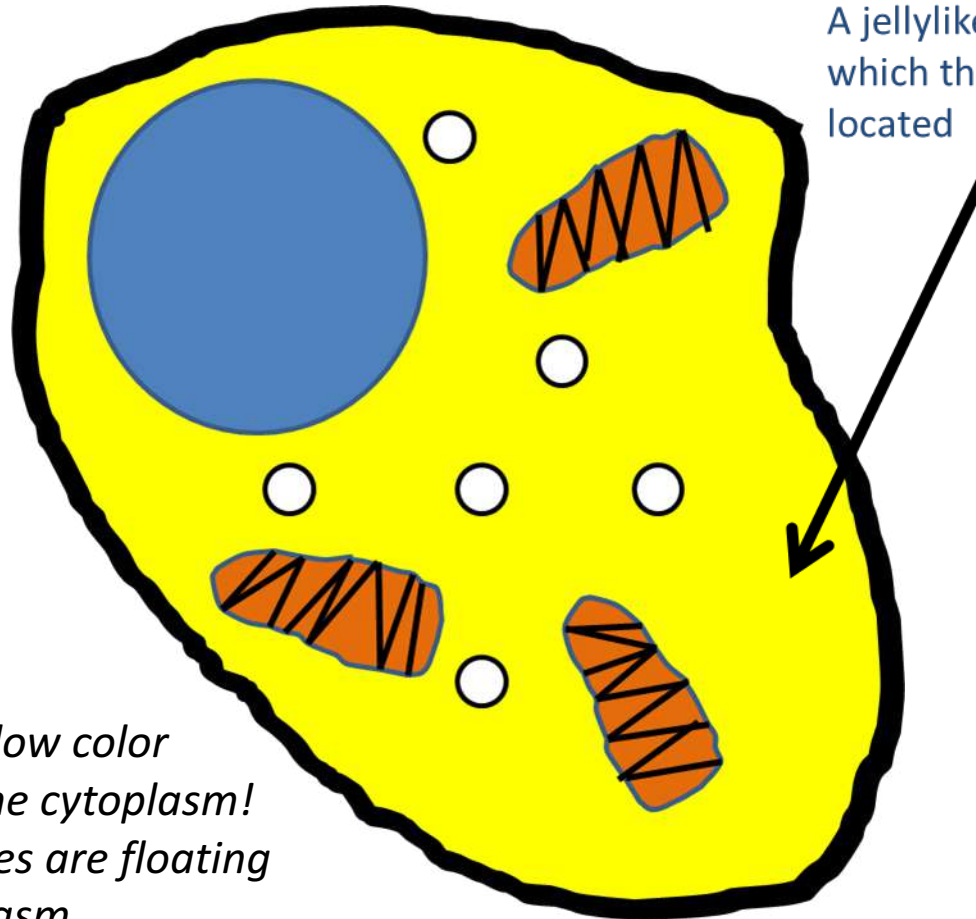
Holds the cell's shape and allows some substances to pass through



The black line that goes all around the outside of the cell represents the cell membrane. It lets bad stuff out and good stuff in!

## cytoplasm

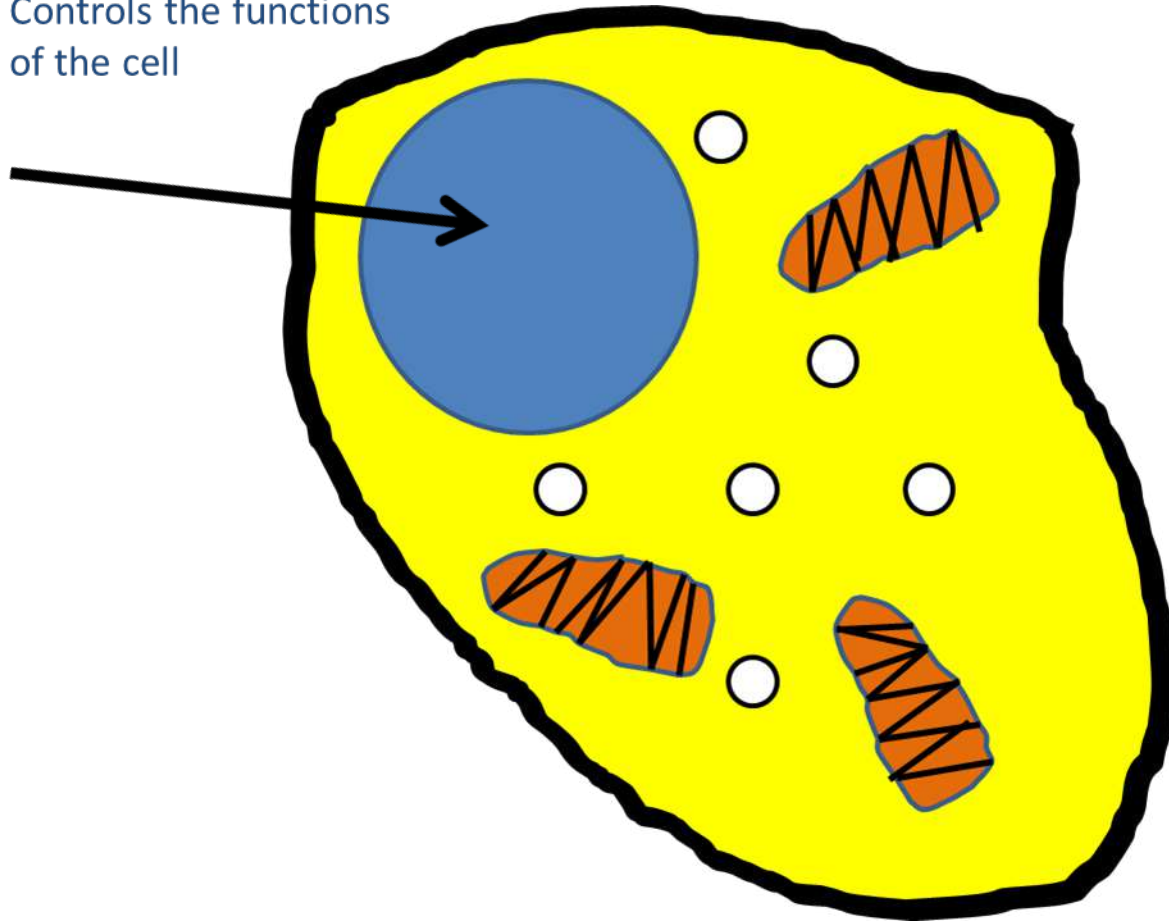
A jellylike material in which the organelles are located



*All of the yellow color represents the cytoplasm! The organelles are floating in the cytoplasm.*

## nucleus

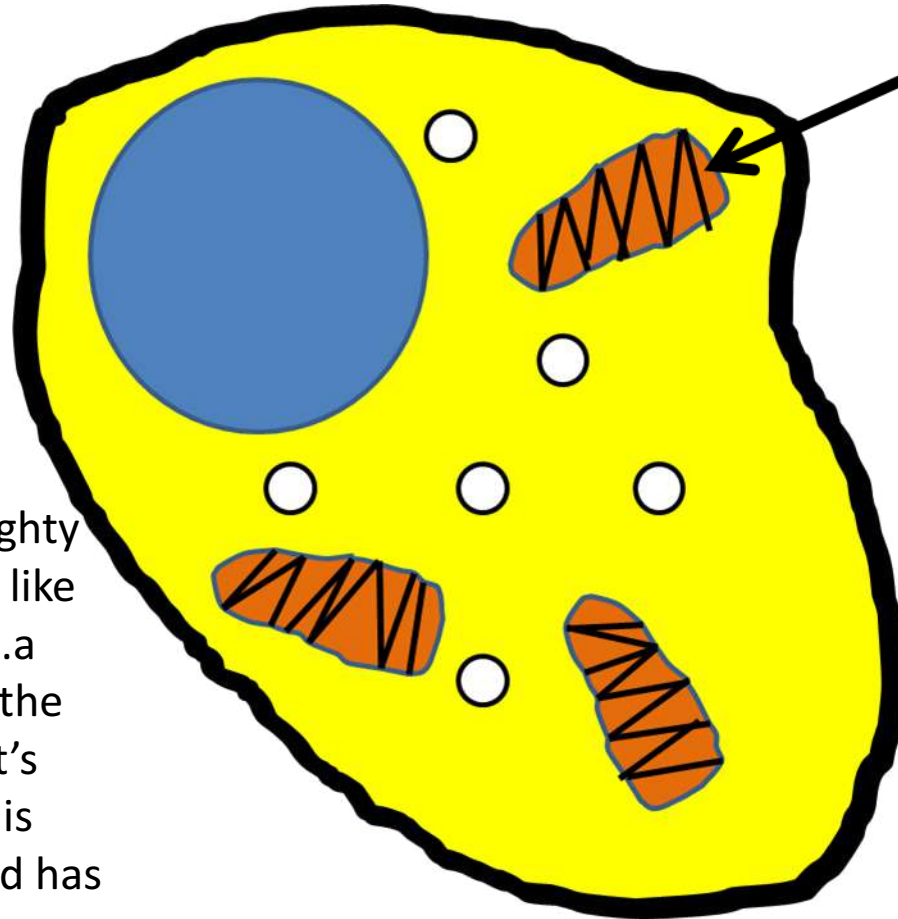
Controls the functions  
of the cell



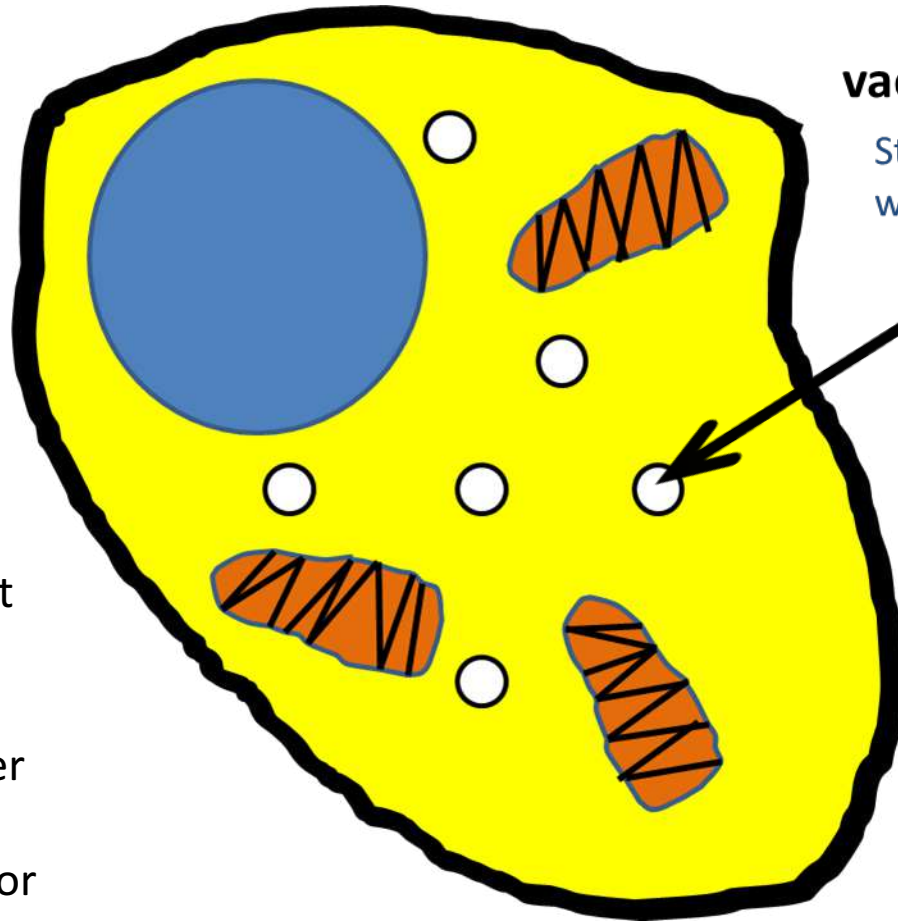
The big blue circle represents the nucleus. It is the boss...it is packed with information about what type of cell it is and what it needs to do to survive. It's like the brain, or the control center, or the coach, or the teacher!

## mitochondria

Converts energy for the cell



Mitochondria...mighty mitochondria...it's like an energy source...a battery that gives the cell energy to do it's job! That's why it is colored orange and has what looks like a lightening bolt on it! Energy!!!



**vacuoles**

Stores nutrients,  
water, or waste

The little white circles represent the vacuoles...they work like a water bottle carrying water or waste or nutrients.

Seven parts of a plant cell that  
you need to know

1. **cell membrane**

Holds the cell's shape and allows some substances to pass through

2. **cytoplasm**

A jellylike material in which the organelles are located

3. **nucleus**

Controls the functions of the cell

4. **mitochondria**

Converts energy for the cell

5. **vacuole**

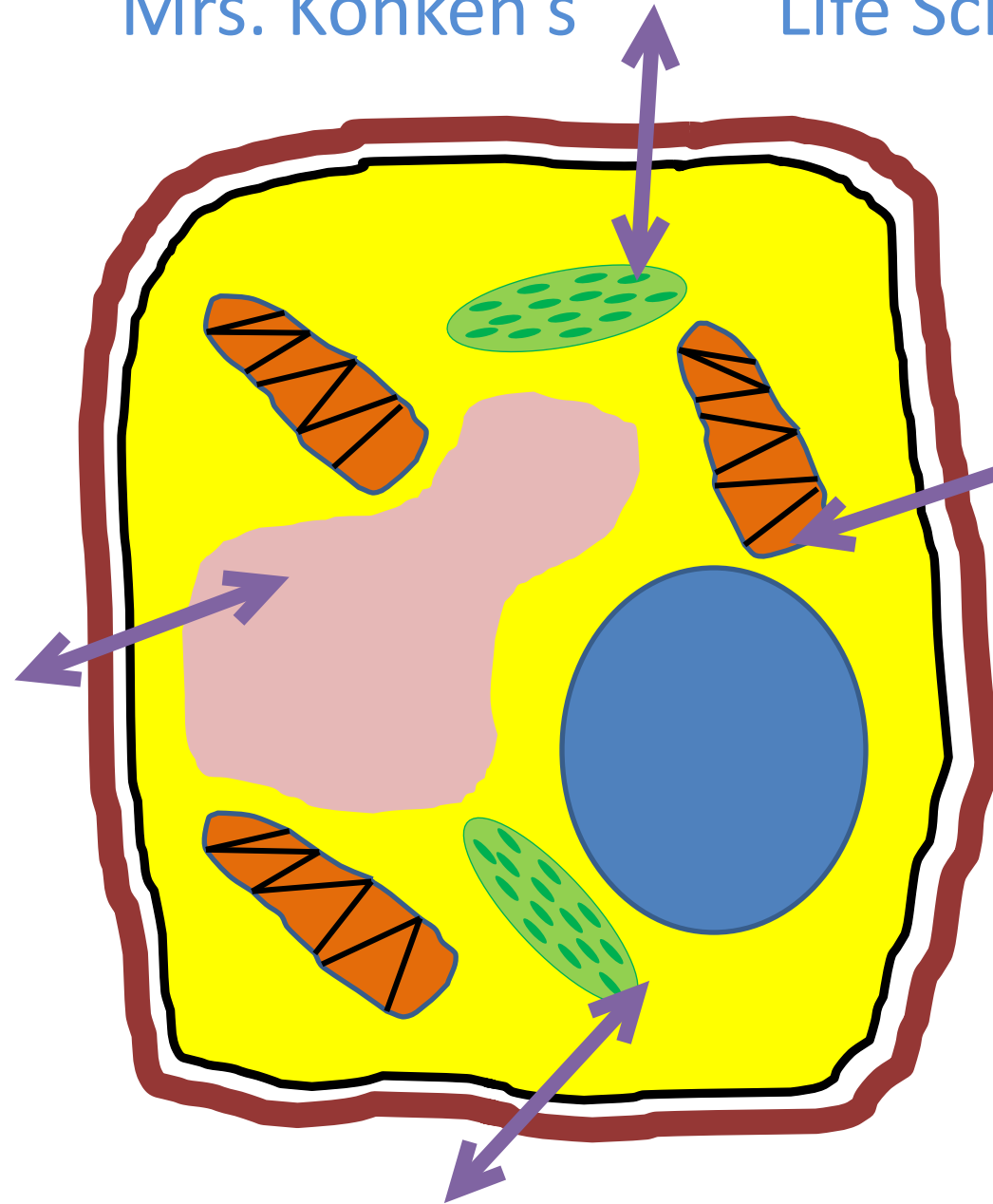
Stores nutrients, water, or waste

6. **chloroplasts**

Converts energy from sunlight into chemical energy

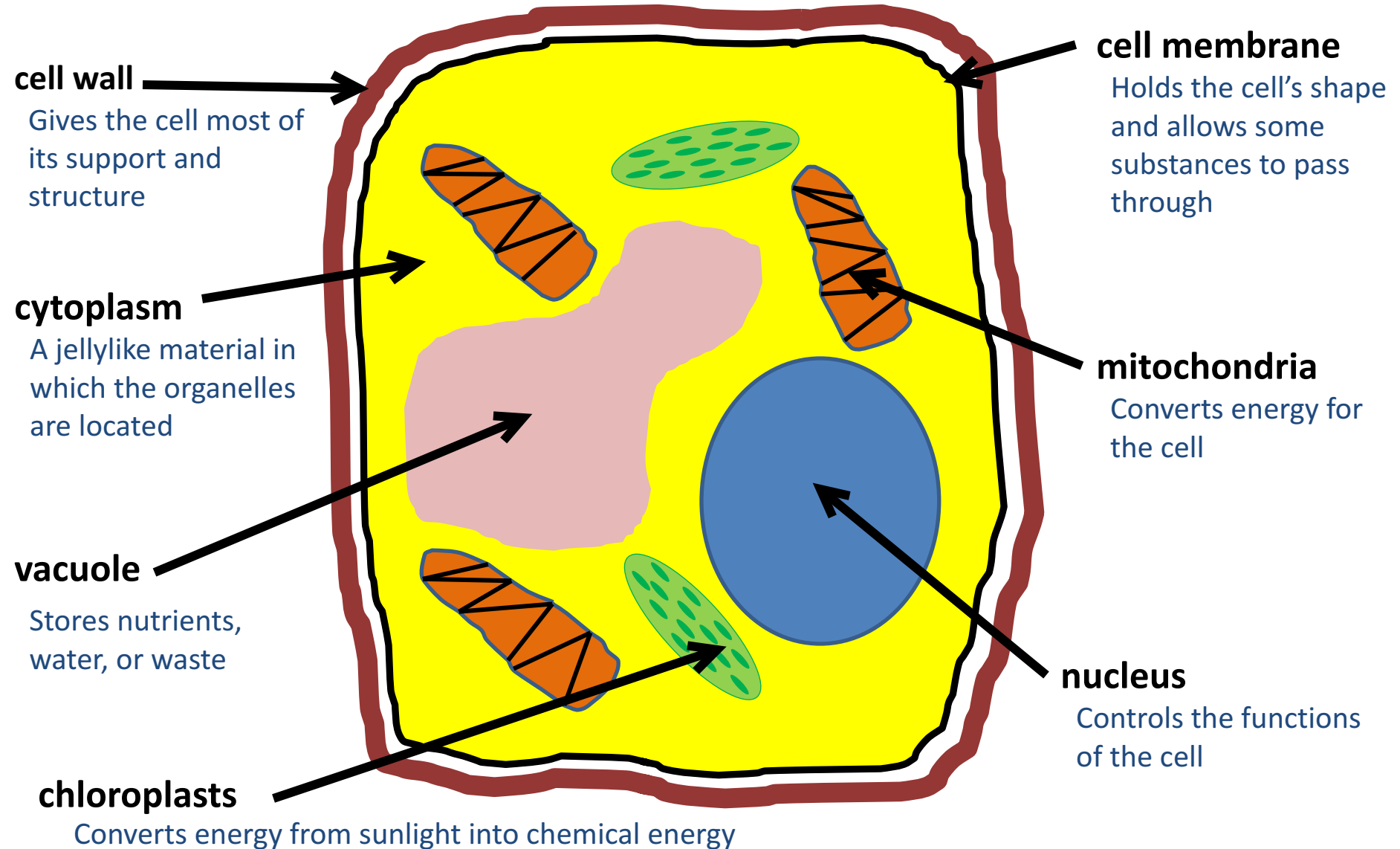
7. **cell wall**

Gives the cell most of its support and structure



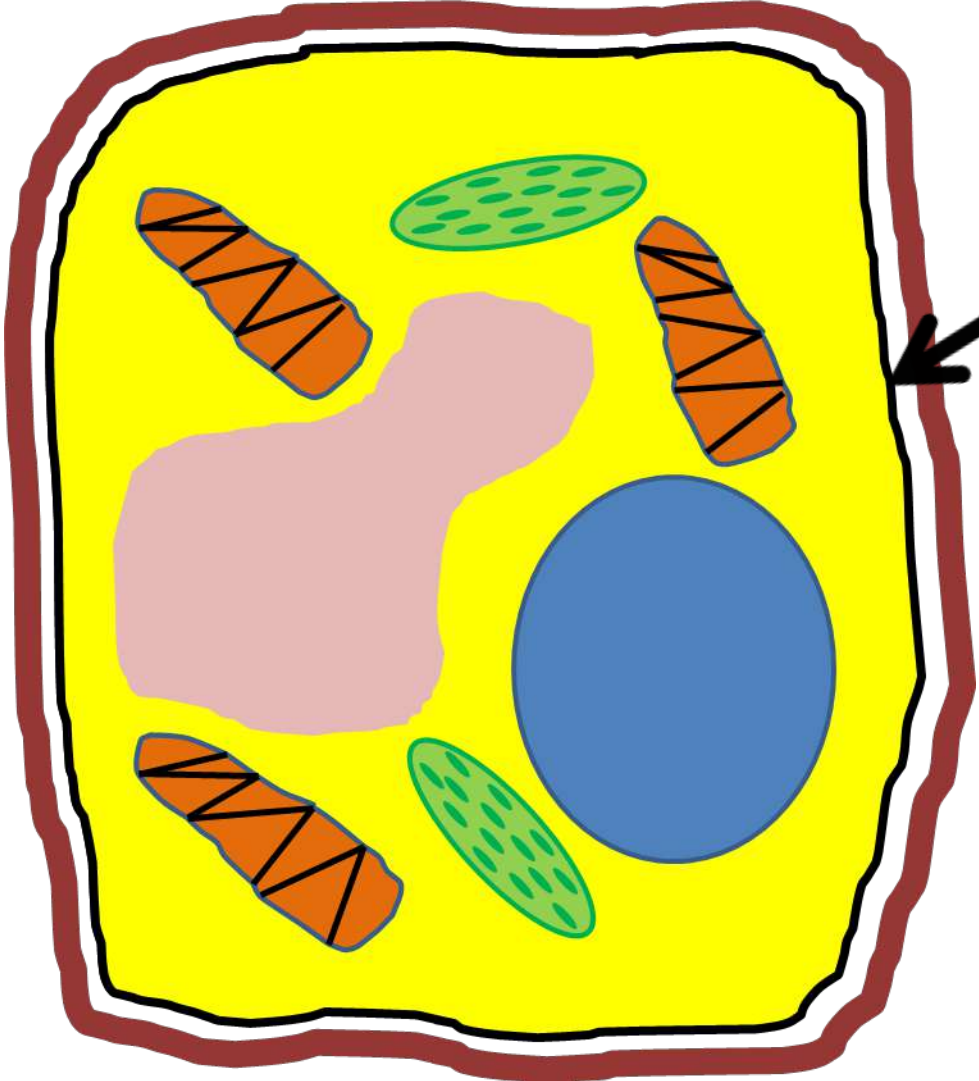


## Seven parts of a plant cell that you need to know



**cell membrane**

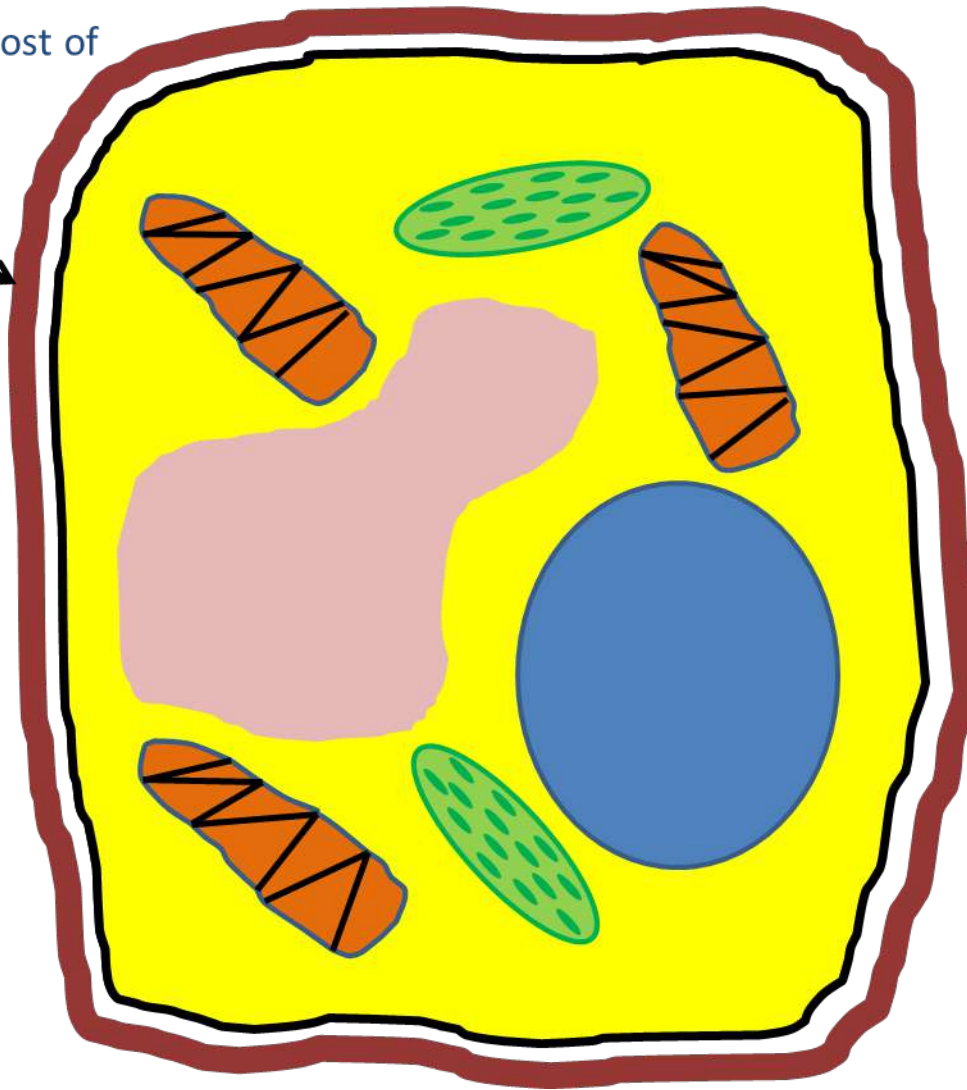
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## cell wall

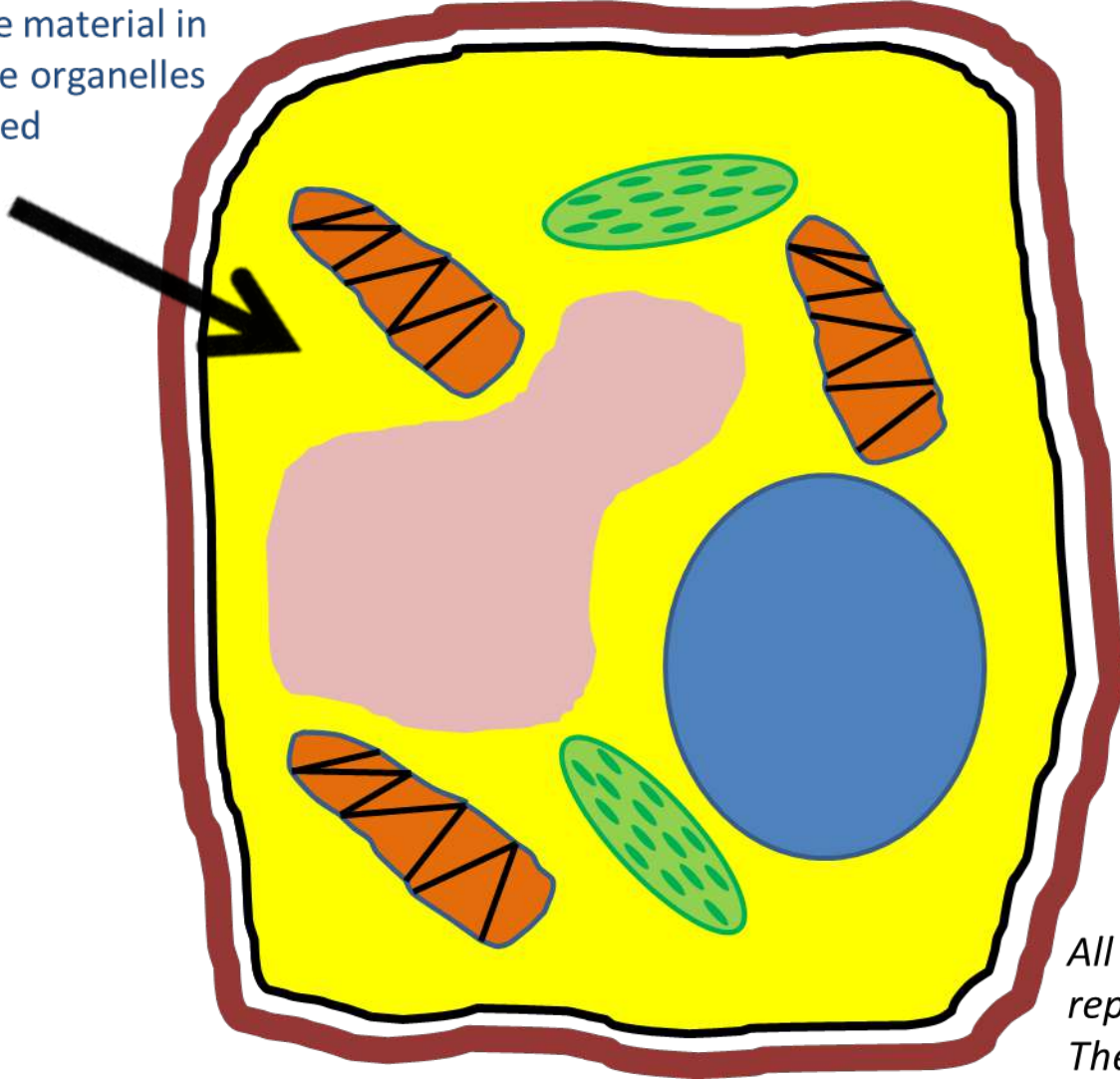
Gives the cell most of its support and structure



The cell wall is what makes a plant stand up straight and tall! In this picture, the cell wall is the red line that runs all around the outside of the cell!

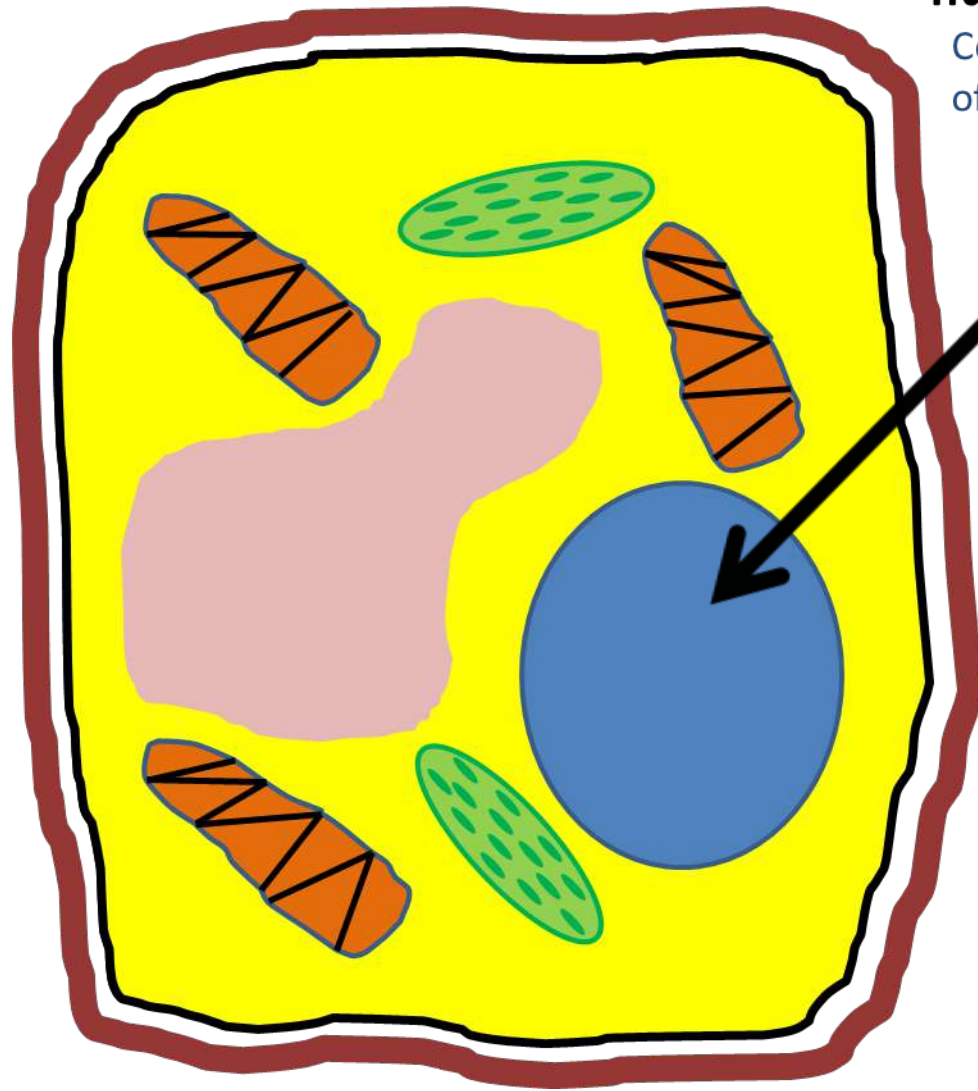
## cytoplasm

A jellylike material in which the organelles are located



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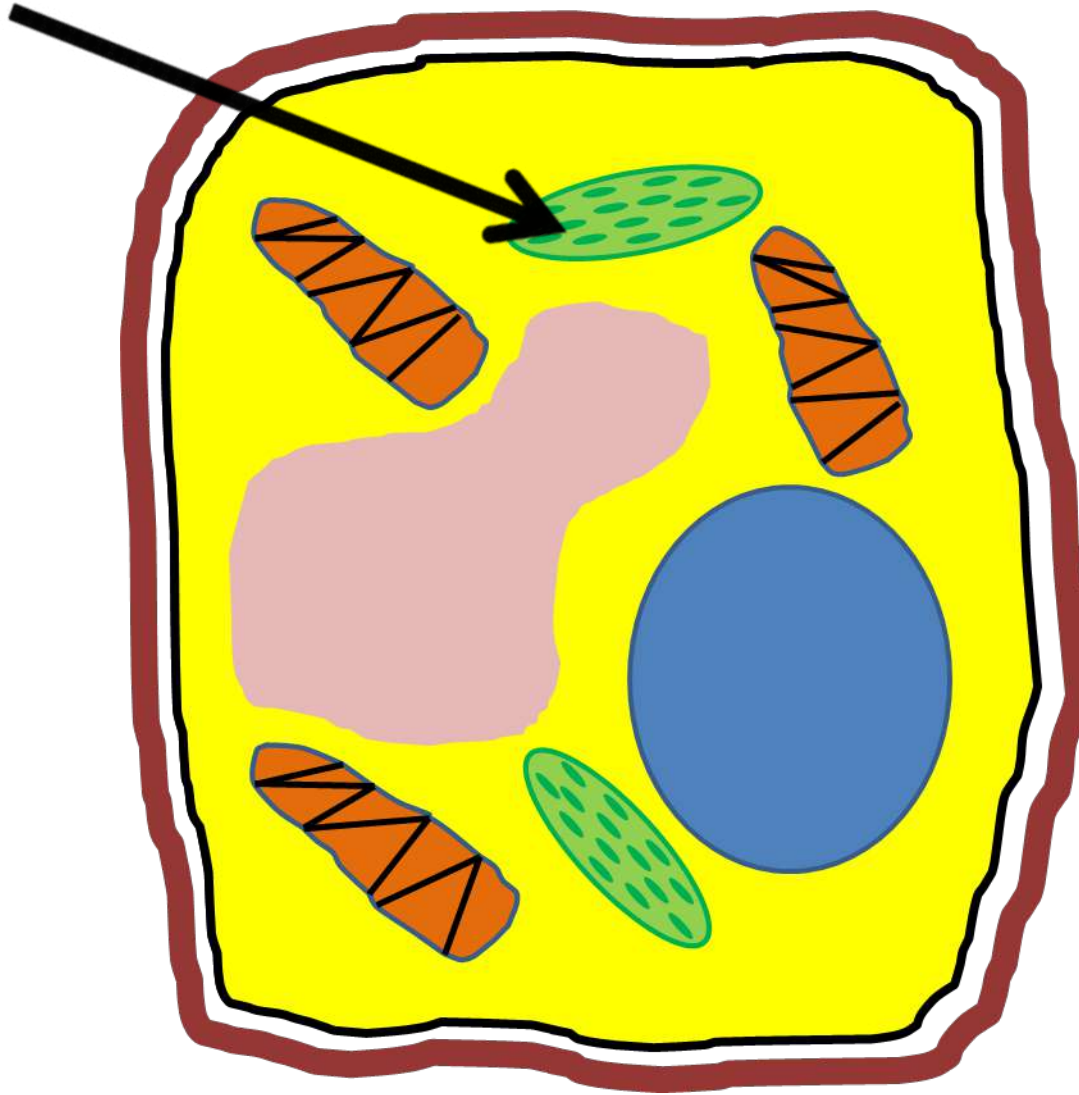


## nucleus

Controls the functions of the cell

## chloroplasts

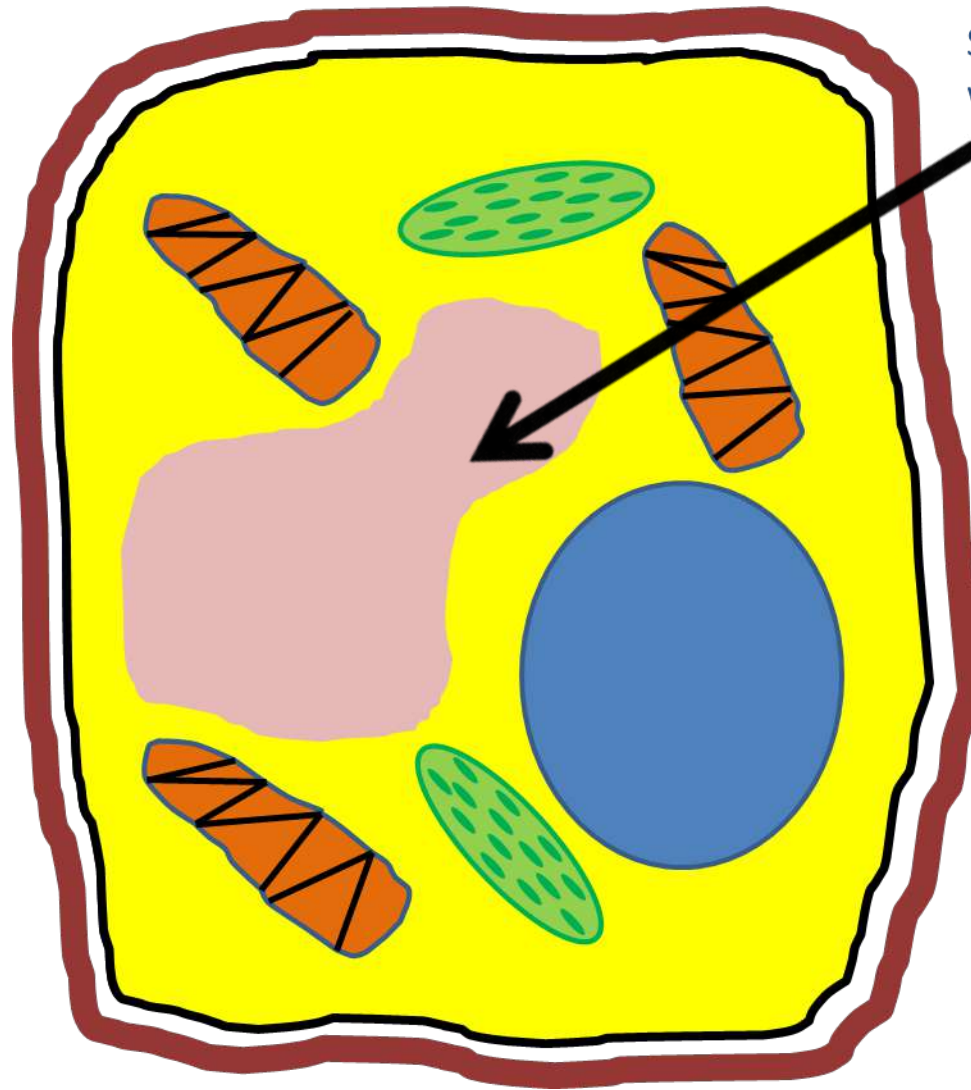
Converts energy from sunlight into chemical energy



Chloroplasts look like green pickles in this model to represent how only plant cells have chloroplasts...they work like a chef turning sunlight into food for the cell!



The vacuole in a plant cell is different than an animal cell...the plant cell only has one really big vacuole (the big pink blob). It still does the same job as the animal cell vacuoles...carries water and wastes...but if you ever see a plant wilting, you know it's vacuoles are dried up and it needs water!

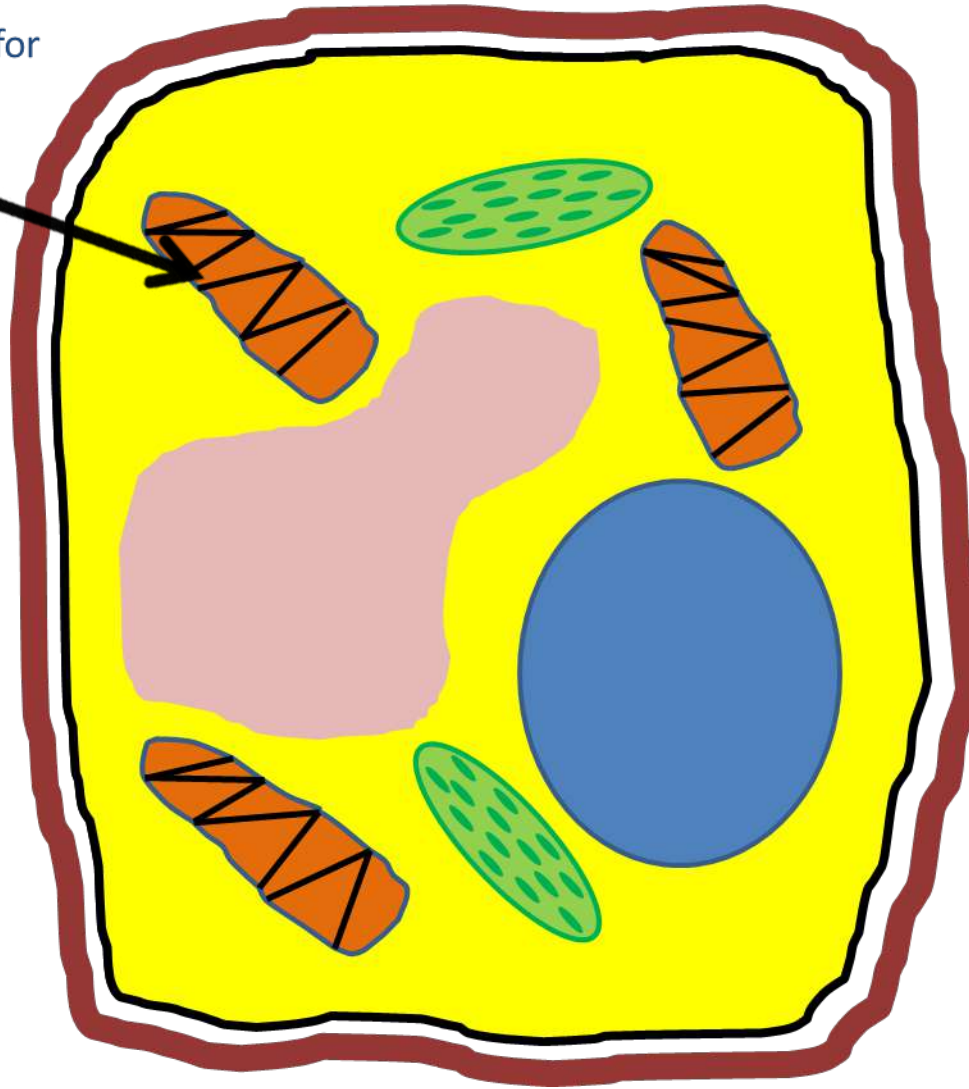


## **vacuole**

Stores nutrients,  
water, or waste

## mitochondria

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the cell



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