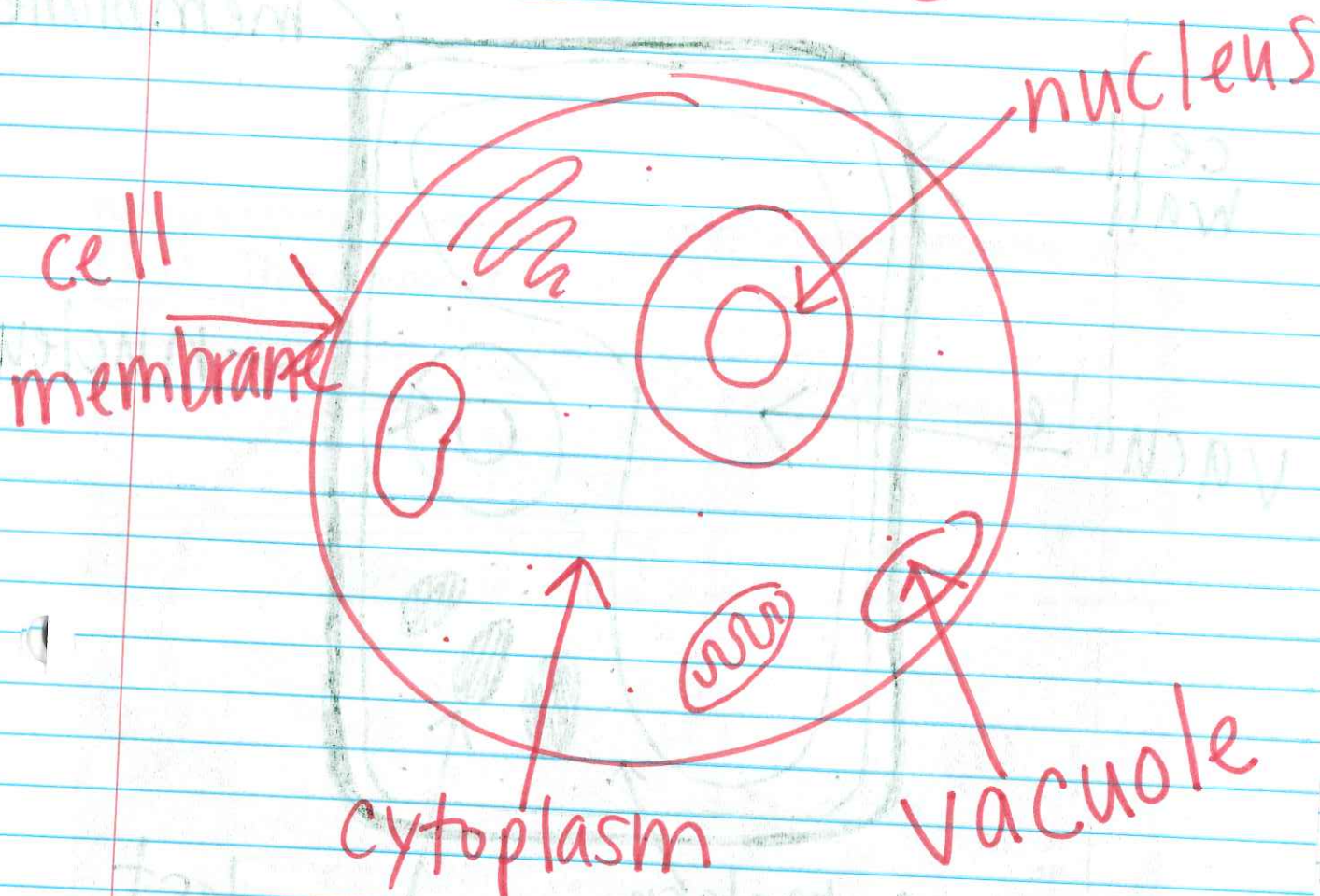
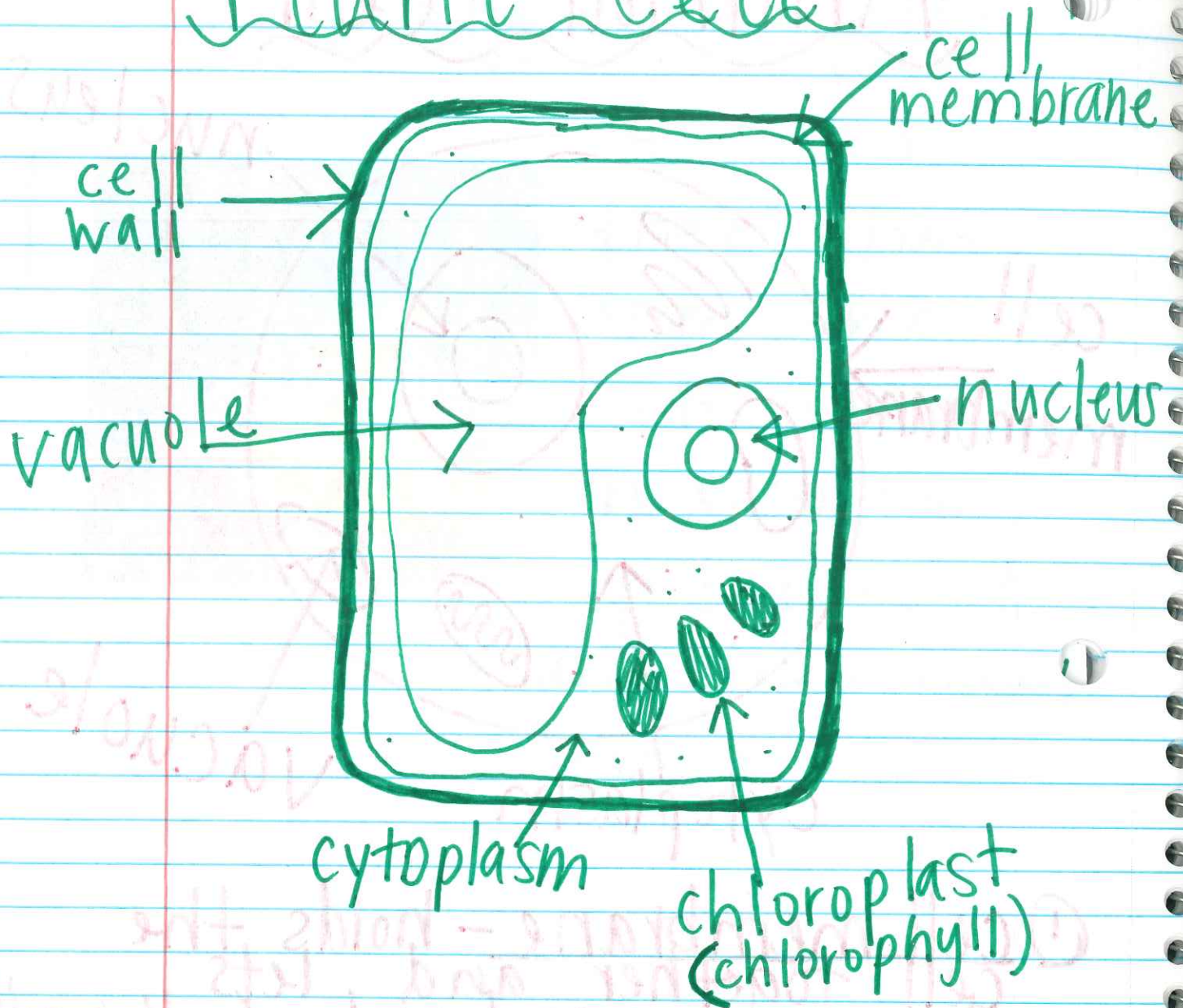


Animal Cell



- ① cell membrane - holds the cell together and lets things in and out of the cell.
- ② nucleus - boss/brain of the cell stores DNA
- ③ vacuole - storage for food, water and waste.
- ④ cytoplasm - jelly-like substance that fills the cell

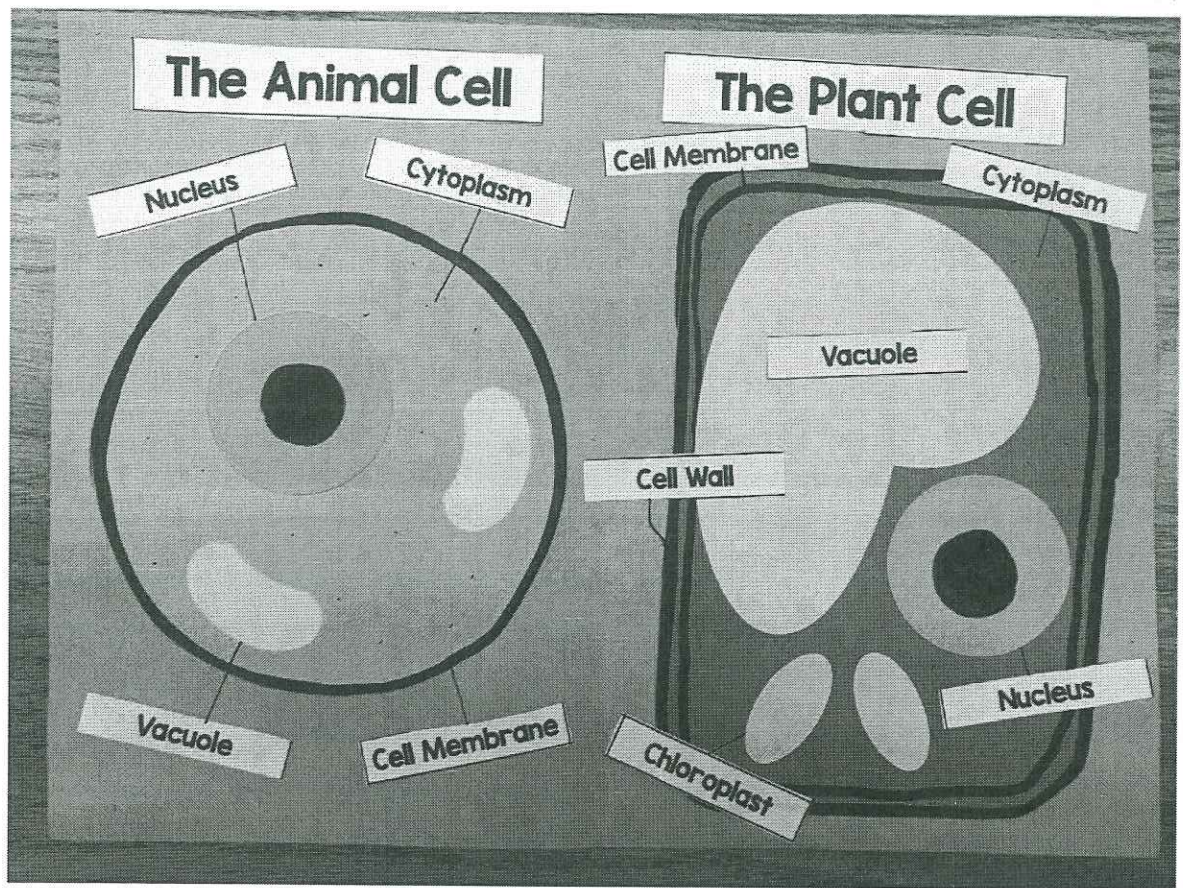
Plant Cell



① Cell wall - rigid structure that protects the cell.

② chloroplast (chlorophyll) - where photosynthesis happens.

☆ vacuole is much larger in a plant cell.



organelle	Function	Comparison
cell membrane	- lets things in and out - holds it together	- gate - skin
nucleus	- Brain of the cell - Tells things what to do - Stores DNA	- Brain - Boss
Vacuole	Stores food, water, waste	- refrigerator - trash can
cytoplasm	- jelly-like substance - fills the cell	- jello - slime
↓ PLANT ONLY ↓		
Cell wall	- protects the cell - keep rigid	- castle wall
Chloroplast (chlorophyll)	- makes the food - photosynthesis - This is what makes plants green.	- Food Factory

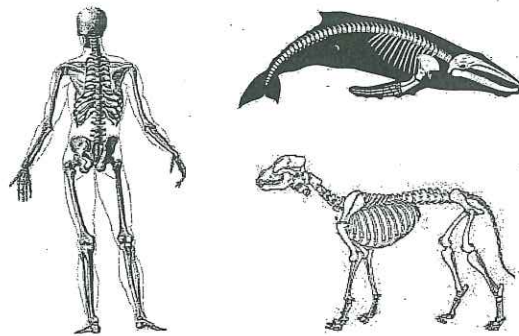
Animals

Animals are classified into 2 major categories.

- Vertebrates
(have a backbone)

- Invertebrates
(no backbone)

Vertebrates - have a backbone.



Vertebrates:

- ★ Mammals- dog, cat, human
dolphins, whale
- ★ Reptiles- lizard, snake, turtle
- ★ Amphibians- frog, toad, newt
- ★ Fish- shark, eel, tuna, bass
- ★ Birds- owl, robin, parrot

Invertebrates - do not have a backbone

spider →



← worm



Invertebrates:

- ★ Arthropods- invertebrates with legs that have several joints
insects, spiders, crabs (bugs)
exoskeleton
- ★ Mollusks- invertebrates that may or may not have a hard shell
snails, clams, squids

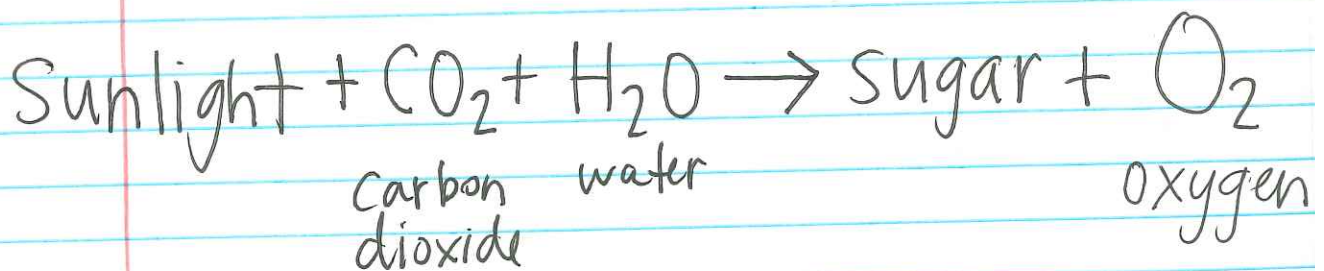
Plants

Plants can be classified into 2 major groups.

- Vascular

- Nonvascular

★ Plants make their own food in a process called Photosynthesis.



Vascular

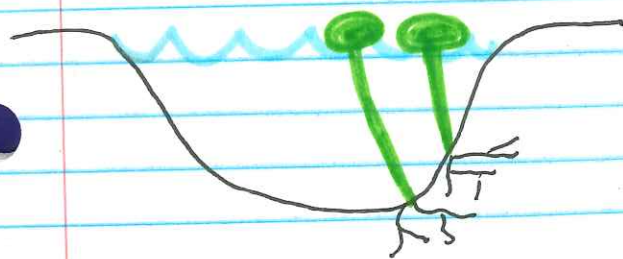
* plants that have special tubes that carry water and nutrients throughout the plant.

- Have roots, stems, leaves
- Most plants are vascular
- Can grow tall



Tulips Grass Fern

- examples: flowers, trees
vegetables, fruit, bushes



Roses Venus
Clover Fly
Weeds Trap
~~Seaweed~~

Nonvascular

Plants that DO NOT have tubes. They soak up water slowly like a sponge.

- always small.
- live in a damp dark place.



liverworts moss

examples: seaweed, algae.
hornworts, phytoplankton

