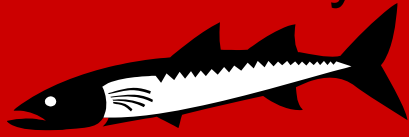


Attitude is Everything!



Thurs, Oct 12, 2017

Pick up: none

Today you will:

1. Review Microscopes, Cell types & Organelles
2. Cell Analogy Project-due Tuesday at beginning of class

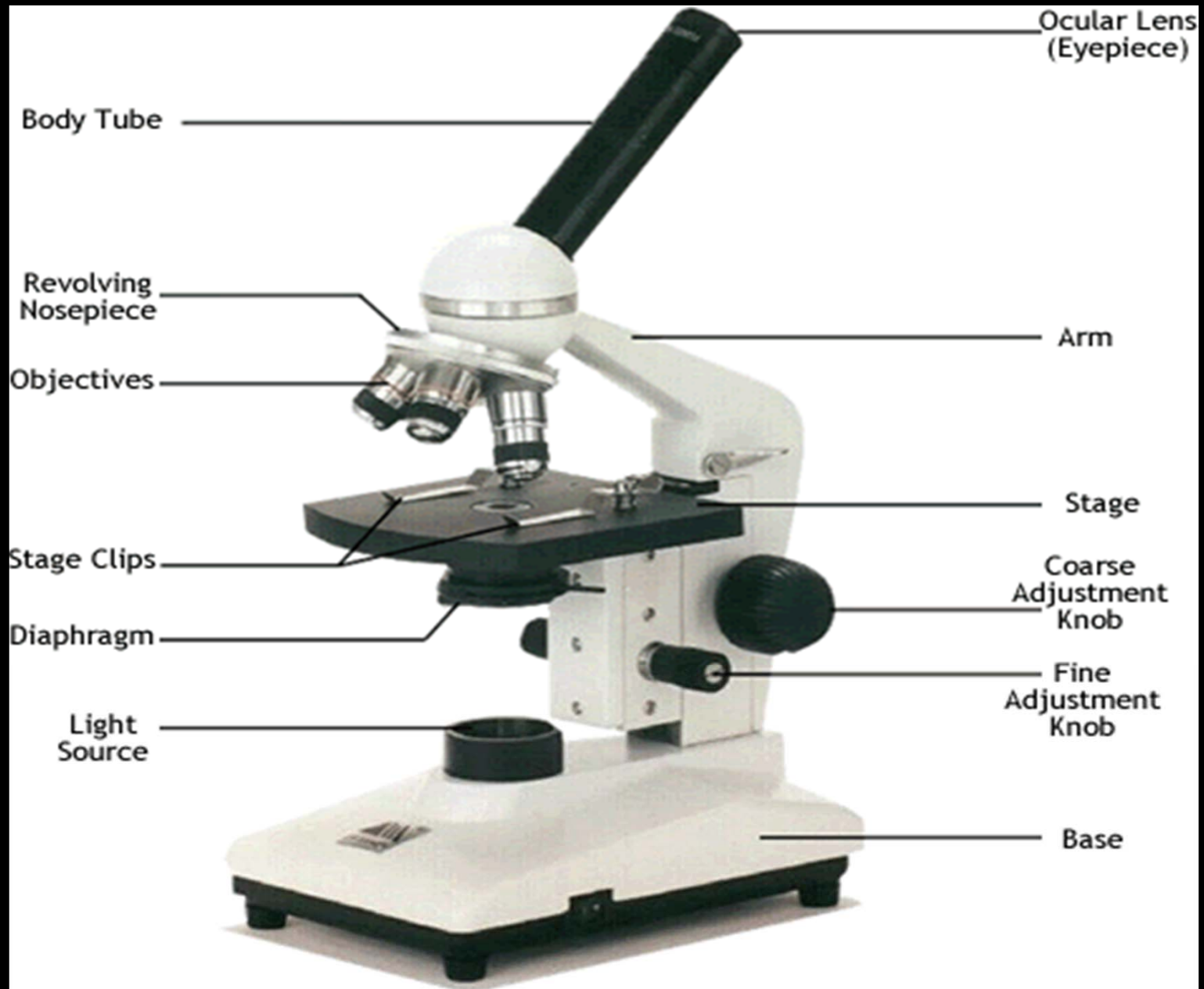
Homework/Planner:

Review your notes tonight!

Quiz- Cell Theory, Microscopes, Cells Wed, 10/18

Don't forget!
Costa Rica Info
Mtg Thurs,
10/19

THE COMPOUND LIGHT MICROSCOPE



DISSECTING SCOPE

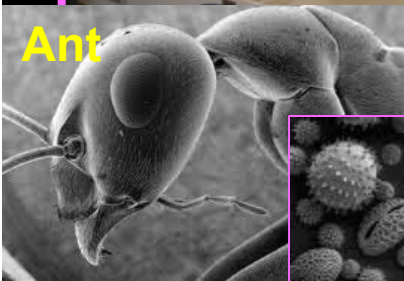


ELECTRON MICROSCOPES

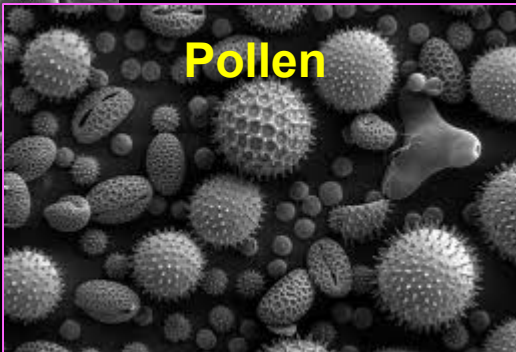
SEM

vs

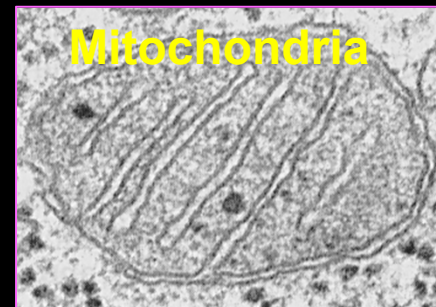
TEM



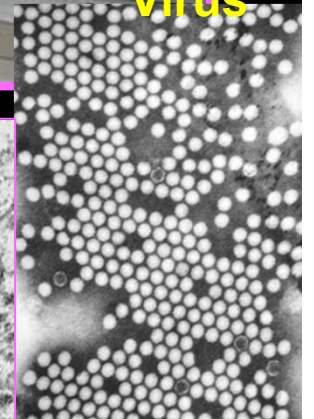
Ant



Pollen



Mitochondria



Virus

TYPES OF SCOPES

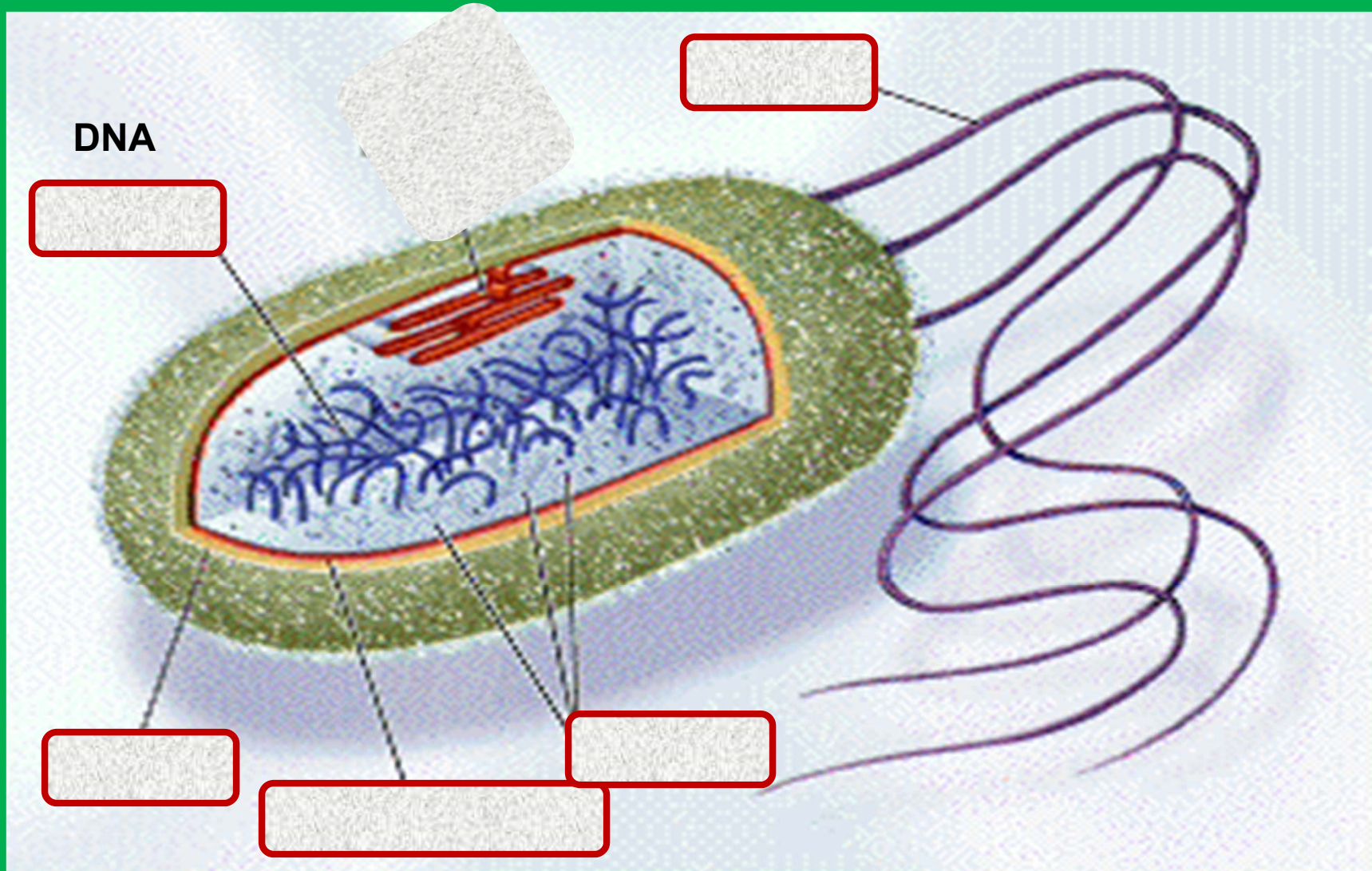
	Light/ Compound Microscope	Stereo/ Dissecting Microscope	SEM = Scanning Electron Microscope	TEM = Transmission Electron Microscope
Dimension	2D	3D	3D	2D
Magnification	1000X	500X	1000 to 10,000X Scans surface	10,000 to 100,000X Transmits thru
Can View...	Preserved... living	Preserved... living	Preserved	Preserved
Quality of Detail	General view	Used to dissect	larger, thicker structures	The Winner!!! smaller; more detail

DSQ-ISBN pg 44

- What is the main difference between
- Prokaryotic cells
- Vs.
- Eukaryotic Cells?

Can you answer this?

1. What TYPE of cell is this?
2. What is the name of the organism?
3. Can you label this cell?



2 Major TYPES of Cells

“Karyon” = nucleus

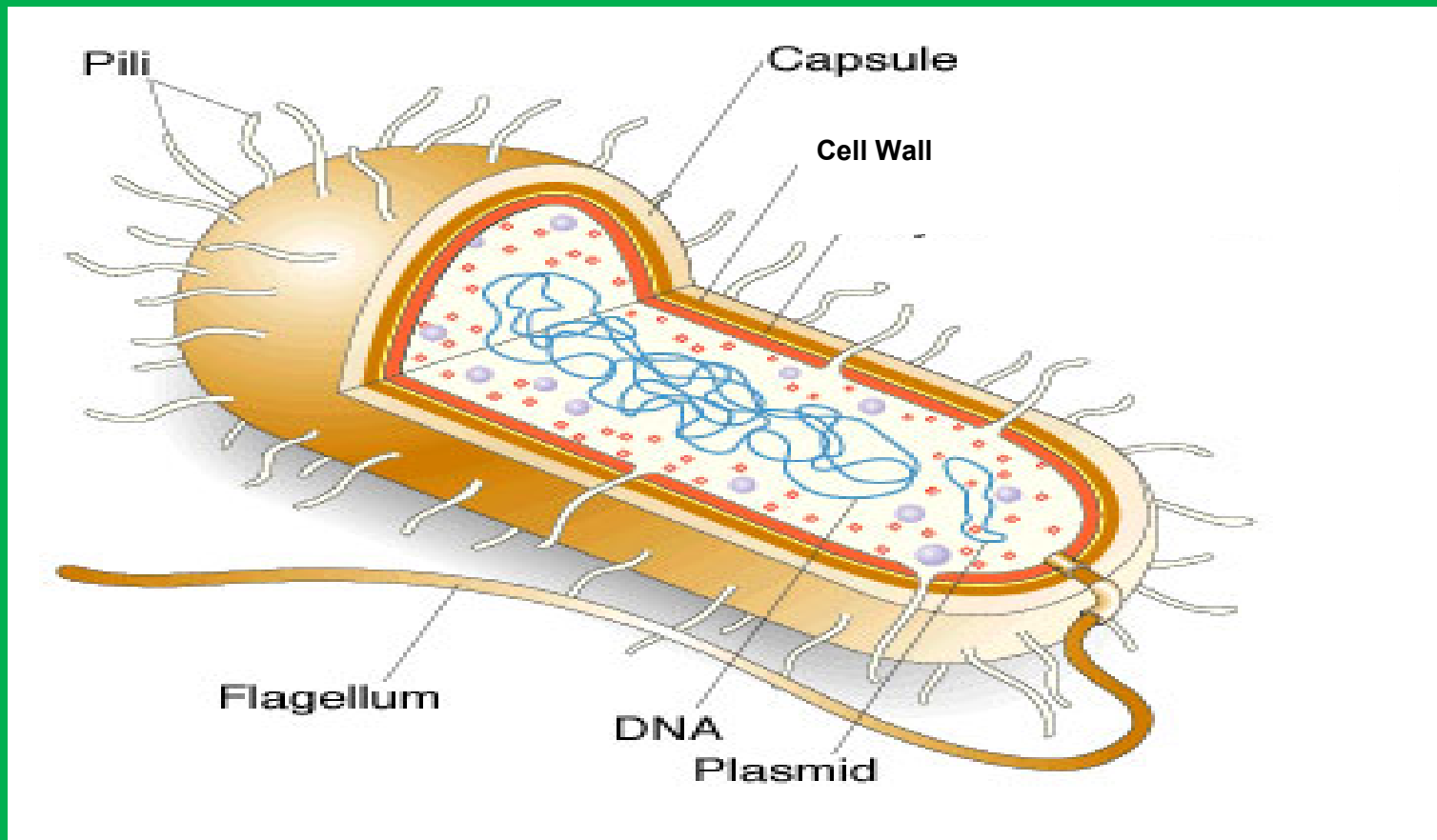
PRO = NO

PROkaryote = NO nucleus

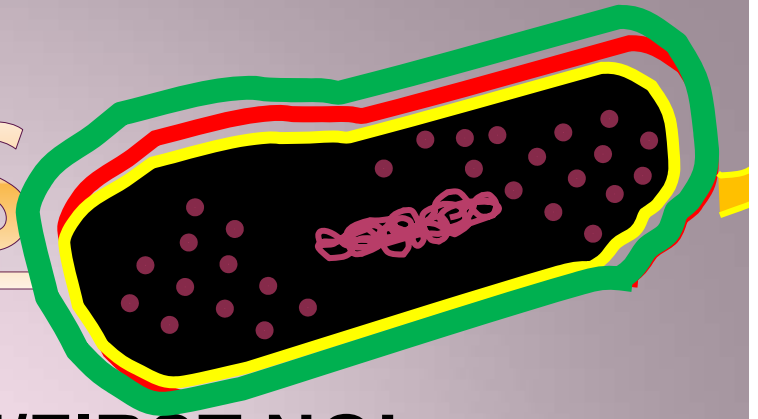
EU = TRUE

EUKaryote = DO nucleus

PROKARYOTIC

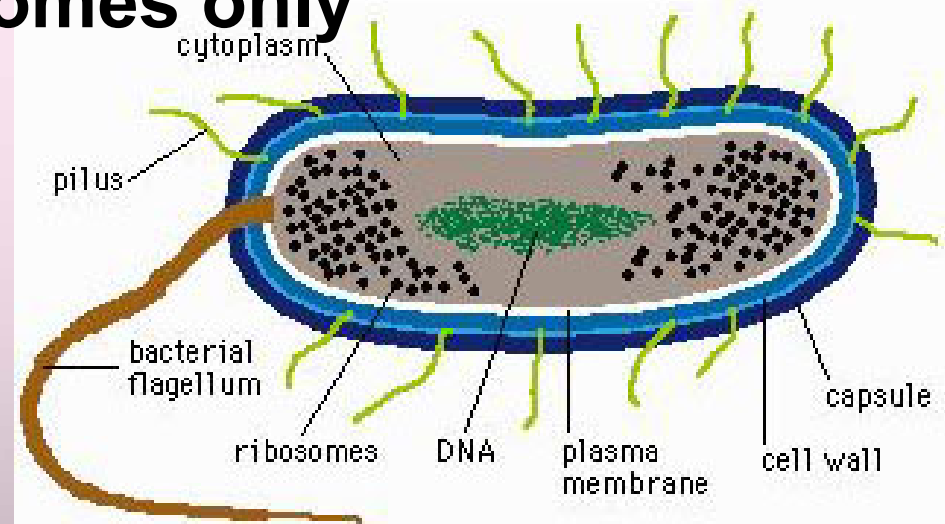


PROKARYOTES



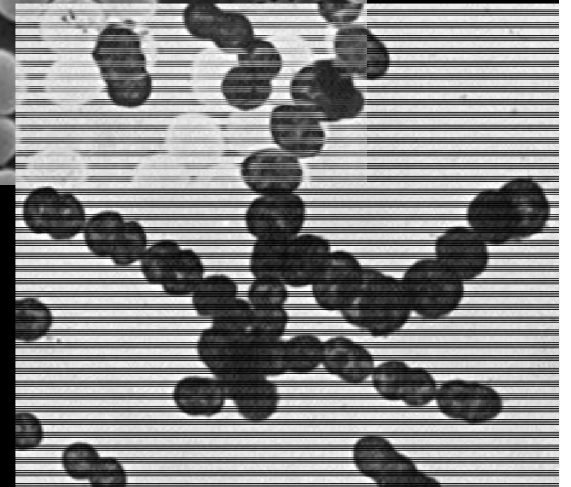
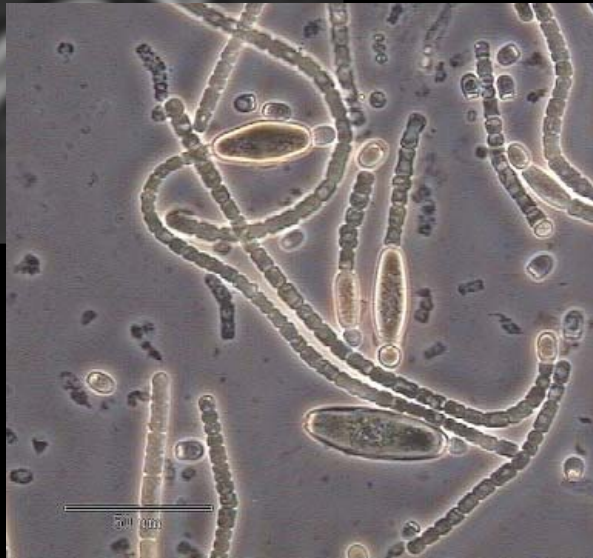
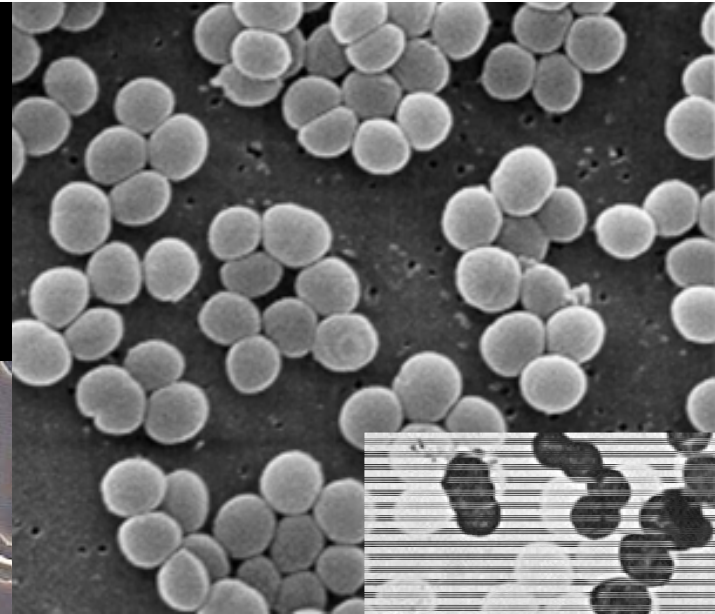
1. Prefix
2. Nucleus
3. DNA
4. Organelles
5. Cell #
6. Example
7. Sketch

1. **PRO = BEFORE/FIRST-NO!**
2. **NO!**
3. **YES, suspended in cytoplasm**
4. **NO, ribosomes only**
5. **Single**
6. **Bacteria**



*THE ONLY PROKARYOTIC CELLS IN THE
UNNNIIVVEEERRRRSE...*

BACTERIA!!!!



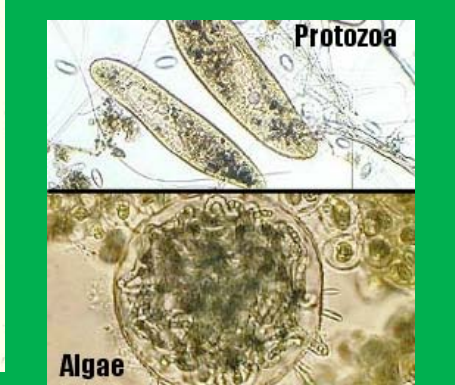
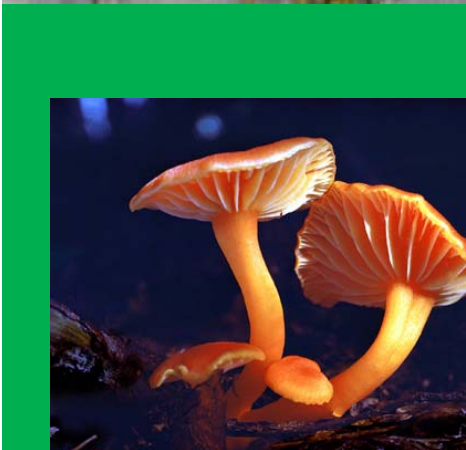
EUKARYOTES

1. Prefix
2. Nucleus
3. DNA
4. Organelles
5. Cell TypeS
6. ExampleS
7. Sketch

1. EU = DO/YOU!
2. YES!
3. YES, inside nucleus surrounded by nuclear ENVELOPE
4. YES; ribosomes, ER, mitochondria, Golgi Apparatus, chloroplasts, etc
5. Single AND multi
6. Protists, Fungi, Plantae, Animalia

EU

KARYOTIC



MANY EX. OF EUKARYOTIC CELLS IN THE UNNNIIVVEEERRRSE...

Protists Fungi Plantae Animalia

