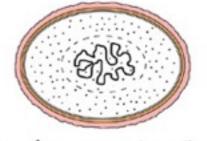
The Cell -Under Microscope





Prokaryotic Cell



Animal (Eukaryotic) Cell

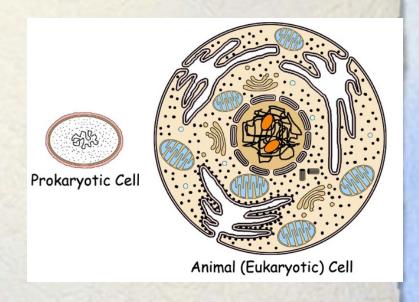
Prokaryotic VS Eukaryotic

Prokaryotic Cell:

- Small and simple
- Single circular strand of DNA

Eukaryotic Cells:

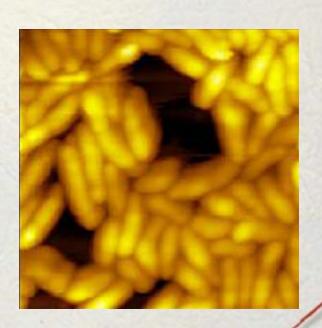
- Organelles
- DNA in a double membrane nucleus



Prokaryotic Vs. Eukaryotic

Prokaryotic Cells
. Bacteria



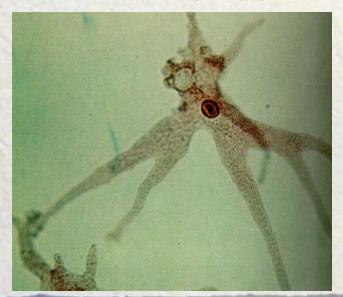


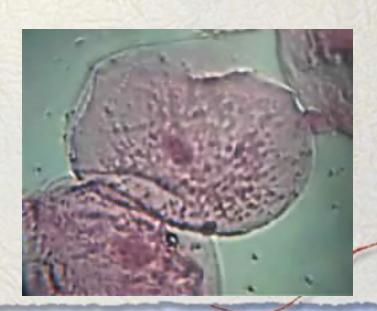
Prokaryotic Vs. Eukaryotic

Eukaryotic Cells (having true nucleus)

A. Animal

- Amoeba
- Cheek





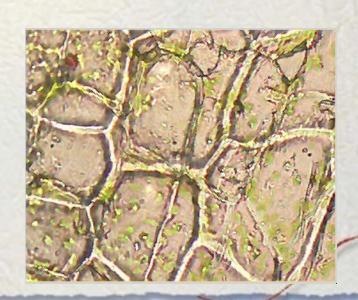
Prokaryotic Vs. Eukaryotic

Eukaryotic Cells (having true nucleus)

B. Plant

- Onion skin



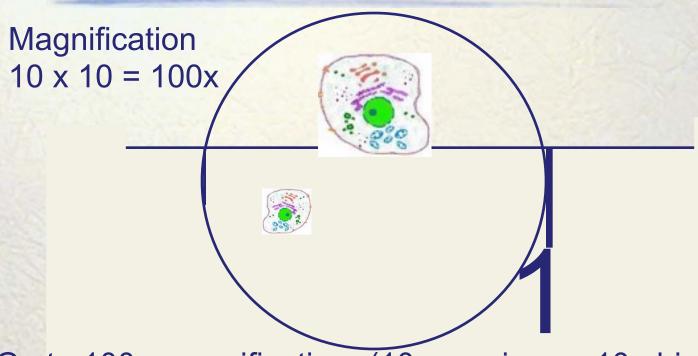


	Prokaryotes	Eukaryotes
Cell Organization		
Nucleus		
Components		
Types		
Size		

Using the Microscope

- ? Low rule (light, stage, power)
- ? Scope placement
- ? Magnification
- ? Making a wet mount

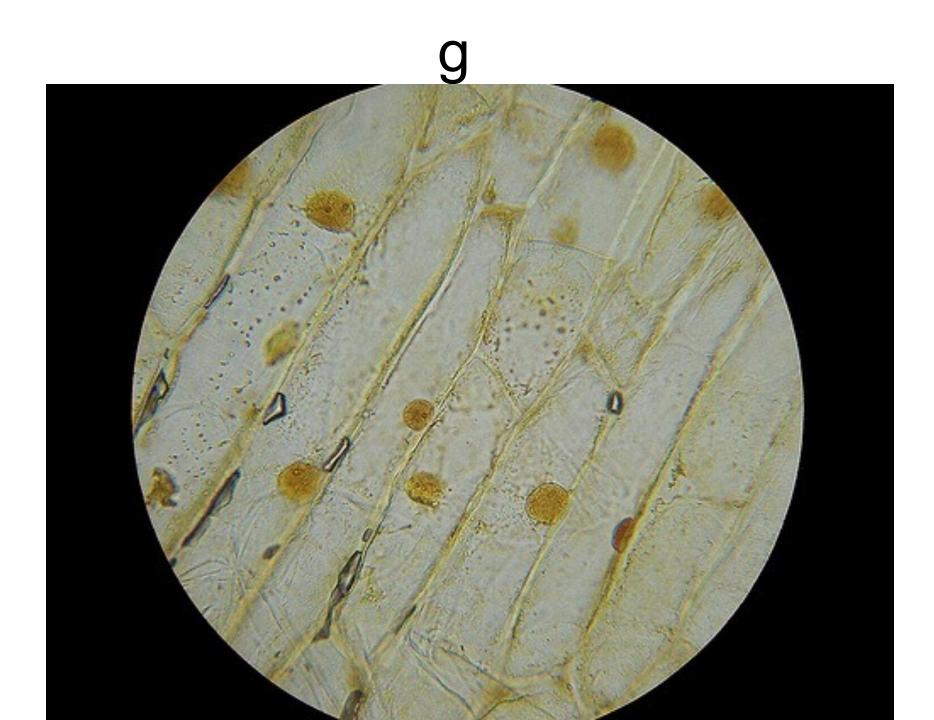
Measuring Size



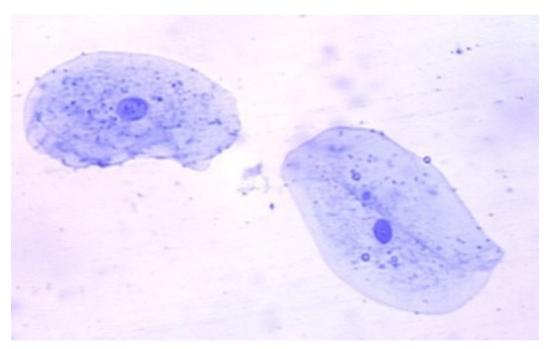
- 1. Go to 100x magnification- (10 eye piece x 10 objective)
- 2. Use the scale of diameter = 1000 um
- 3. Estimate size

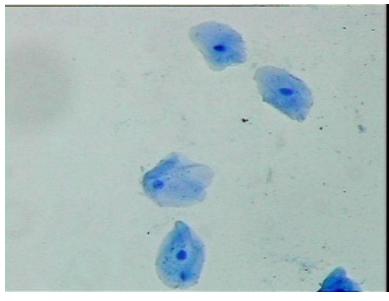
Illustration Rules

- » Always use a pencil.
- » Always print.
- » Draw a circle to represent the microscope's field of view.
- » Label off to one side.
- » Use a RULER when labelling.
- » Add a title and state the observed magnification.
- » Draw cells at the BEST magnification (that which shows the required detail).
- » With tissues or groups of cells, Illustrate only 3-5 cells to get the gist.



Work samples





Onion Shell Skin lax. lox = loop um cell wall Plant nuckus Cheek Cell cell brone lox lox loox Mana

10x 2 10x 2 Check Coll 100x magnification. cell merbrane.

February 7, 2011 Cheek Cella cell membrance nuclear mentione - nucleus cytoplasm 40 llon

CELLS: ONION CELL nucleus 10 × 10 = 100 magningham - cell wall membrane. size of cell: 1000 mm = 4 = 250 pm

