

Course _____

Name: _____

M.Mazurkewich

Block: ____ Due: _____

PROKARYOTIC

EUKARYOTIC

- cells of monerans
- no vacuoles
- some don't need oxygen
- evolved 1st
- usually unicellular
- external wall
- circular DNA
- No chloroplast
- Nucleoid (holds DNA)
- No cilia (pilus instead)
- Reproduce by fission
- No nuclear envelope
- No nucleus
- No endoplasmic reticulum
- Chromosomes loose in cell
- Smaller ribosomes
- NO membrane-bound organelles

- **RIBOSOMES**
- Cell membrane
- Organic
- Chromosomes
- Have cytoplasm
- +/- chlorophyll
- reproduce
- respire
- respond to stimuli
- have protein
- have basal bodies

- ALL require oxygen
- Evolved AFTER
- Have cytoskeleton
- DNA not circular
- Have nucleus
- Have mitochondria
- HAVE membrane-bound organelles
- Chromosomes IN nucleus
- More complex than prokaryotes
- Reproduce with mitosis or meiosis
- Mostly multicellular
- Cells of protists, fungi, plants, animals.
- Larger ribosomes

Comment[s]:.....
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Both prokaryotic cells and plant cells (eukaryotic) have cell walls, but they are made of DIFFERENT substances. Eukaryotic ANIMAL cells have NO cell walls.