

## Cell Lesson Plan 2

1. Warm-up: on Google Classroom this week  
Answer with COMPLETE SENTENCES please!
  1. What is the biggest difference between a prokaryotic and eukaryotic cell?
  2. Which kind of cells are we made of, prokaryotic or eukaryotic
  3. What is a cell's "skin" called?
  
2. [http://scienceworld.scholastic.com/issues/09\\_07\\_15/book#/8](http://scienceworld.scholastic.com/issues/09_07_15/book#/8) - reading  
<http://scienceworld.scholastic.com/resource/issues/F0423E71-D92C-A14E-9C7E712D0F139056/skills-20150717110048.pdf> - worksheets
  
3. After the warm-up, talk about cell membranes. Draw the structure of how phospholipids are arranged on the board. Ask students if they know what *phobic* and *hydro* mean, and from there explain *philic*.  
  
Use this info to explain how the hydrophobic tails of the phospholipids (lipids are fats, phospholipids have phosphorous attached) arrange themselves to keep water out. Since the water-fearing parts are on the inside, it is difficult for materials to pass through the membrane.  
  
Point out the little holes in the membrane. They are created by proteins, and they allow nutrients to be brought in and waste to be ejected. They aren't just an open highway! They are like toll roads - only certain molecules are let in. (analogy of receptionist at a fancy party only letting people on the guest list in)
  
4. Students should now go through section 2 (p120-126) and find the definitions for **cell wall, cytoskeleton, ribosomes, endoplasmic reticulum, mitochondria, chloroplasts, golgi complex, vesicle, lysosomes, and vacuole**. These should all be entered into their toolkit.
  
5. Once students have finished this, they can get the Cell Organelles Study Sheet. This assignment will have them drawing pictures of each organelles as well as writing in their own words the function of the organelle

[https://docs.google.com/document/d/1yJSEq18Z-cEC2uTeKjEbwZWe8v\\_hpbnzwNeMG2h1CFY/edit](https://docs.google.com/document/d/1yJSEq18Z-cEC2uTeKjEbwZWe8v_hpbnzwNeMG2h1CFY/edit)