SI	Lead	er – Philipp Orbe
Se	ession	n: 1 – Cell Biology Introduction
		What are the two basic forms of cells? What are some defining characteristics? Prokaryates - simpler, smaller, nucleoid, bacteria eukoryates - hucleus, organelles, larger i complex, plants lan mals/protests from Bacteria and archaea are prokaryaticells.
	3.	nucleoid
		Is the DNA in prokaryotes surrounded by a membrane?
		T/F) Eukaryotes are the only cells that have a cell wall. Plants, most proborpotes have a cell wall
08	5.	Some prokaryotes have surface projections. List some surface projections and their function. 1. flagplum - novement (propulsion) 2 pilos - can help attach prokarples to reigh boring cells
	6	Prokarvotes and eukarvotic cells are similar in several different ways, one of which is the

Supplemental Instruction - Biology 2300

presence of ribosomes. What is the function of ribosomes? In terms of bacteria why is this an important function? Prodeins called exotoxins. Bacteria create a class of and cause damage to host calls it is sue.

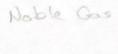
7. What are the four elements that make up 96% of all living matter? (HONPS-

A compound is a substance consisting of two or in a fixed police. His or His of	KOVE EX
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9. Let's talk about atoms and their three subatomic particles. List them and their defi	ning

characteristics.
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10. Draw out an atom. (Nucleus and orbital space).



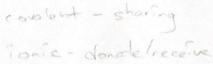
What helps keep electrons near the nucleus?

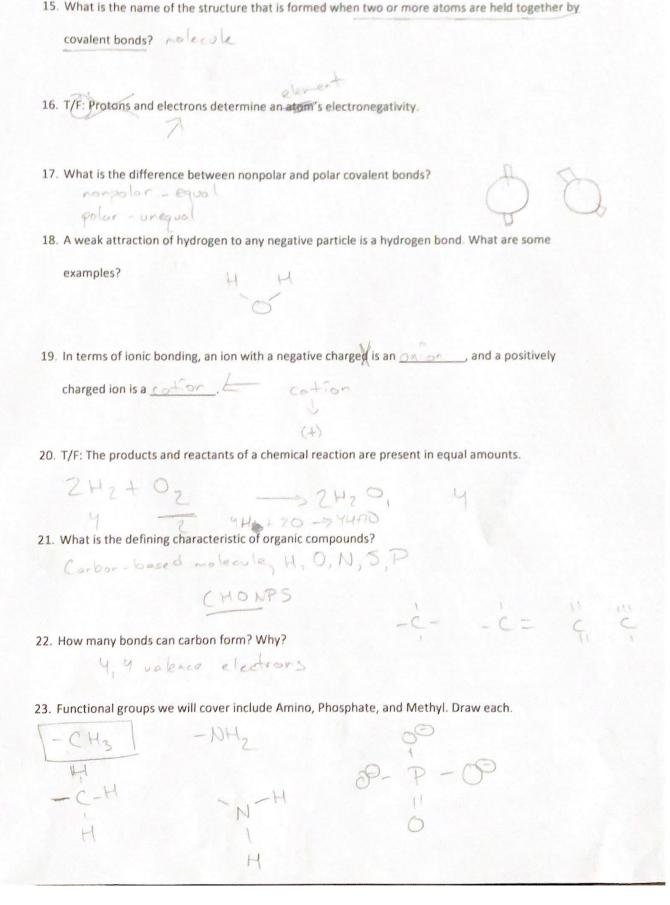


11. What's the difference between the atomic number and the mass number?



- 12. Electron shells contain electrons and the electrons contained in the outermost shell of an atom are called where electrons.
- 13. Noble Co: An element with a full outer electron shell
- 14. List and define the two types of bonds that interact by sharing or donating/receiving electrons.





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24. Wt		lasses of macromolecules? Wha		ocks of each?		
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23. Bu	whi	re called and are lini	red together to form on of these bonds is	through the		
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27. T/	: Lipids repel	water and are said to be hydrop	hobic.			
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	water-	3	roplifie			
	her than energ	gy storage, the other important	function of lipids is c	onstruction of the		
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29. A I	arge lipid mad	e of two smaller molecules (glyc	erol and fatty acids)	is called a		
SOI	ne of the char	racteristics? - hydrol	ob obic			
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	*	ontain no/one/or more than on	double bond. If a fai	tty acid has a double bond it		
is c	onsidered a	. A fatty acid with no	double bonds has t	he maximum number of		
hyd	drogens and is		h kind of fatty acid.	uncadomited - 0:13		
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31. Which kind of lipid is the major component of all cell membranes?

phospholipid





32. In terms of the membrane phospholipids cluster together and form a membrane with two layers called a blager. The heads are in contact with the environment and the internal part of the cell. The had reproduce tails cluster together in the center and face each other.

33. Another common component of the cell membrane (used to increase membrane flexibility/rigidity) is _______. It is also a starting material for making steroids (including sex hormones testosterone and estrogen).

BBS-B steroid-one of the Mings that diffuses through the cell through the cell nembrare readily-