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	Chara	cteristics	of Livi	ng Things
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Test Date: _____

"All living things have common characteristics."

Class website: http://sd41blogs.ca/hemingwaya/

My Questions:	

Cells are the basic unit of life:

Visual Dictionary words (For cell definitions make sure to include the function- if you would like you				
can draw one lar	can draw one large cell and label all of the organelles)			
cytoplasm	nucleus	nuclear membrane (nuclear envelope)	nuclear pore	chromatin
chromosome	nucleolus	ribosome	rough endoplasmic reticulum (R.E.R.)	smooth endoplasmic reticulum (S.E.R.)
golgi apparatus (golgi body/ golgi complex)	lysosome	vacuole (large & small	mitochondria	chloroplast
cytoskeleton	centrioles	cell membrane (plasma membrane)	cell wall	organelle
vesicle	DNA (deoxyribonucleic acid)	prokaryotic	eukaryotic	multicellular
unicellular	cell specialization	Tissue	Organ	Organ system
photosynthesis	cellular respiration			

Learning Goals	Learning Goal	Resources
	unpacked in detail	You learnYou choose
A1.	I know what the cell theory is	CREATE NOTES FROM TEXTBOOK:
• I can describe the		p. 169 - 183
structure and	Cell organelles to know are:	HANDOUTS/NOTES FROM CLASS:
functions of the		Cell Structure & Function
cell's organelles.	cell membrane (plasma	
	membrane)	MAKE NOTES on VIDEOS & WEBSITES in
	cell wall	Unit 1 on class website
• I can identify the	chloroplast	
organelles within a	mitochondria	
plant and animal	• cytoplasm	
cell.	DNA (deoxyribonucleic acid)	
	chromatin	
	• chromosome	

A2. I can compare the characteristics of a prokaryotic cell with a	 golgi apparatus (golgi body, golgi complex) nucleus nuclear membrane (nuclear envelope) nuclear pore nucleolus centrioles ribosome rough endoplasmic reticulum (R.E.R.) smooth endoplasmic reticulum (S.E.R.) vacuole vesicle lysosome differences and similarities types of cells size of cells 	CREATE NOTES FROM TEXTBOOK: p.172 – 173 HANDOUTS/NOTES FROM CLASS: Cell Structure & Function MAKE NOTES on VIDEOS & WEBSITES on class website
eukaryotic cell.	 size of cells simple vs. complex What parts of the cell do the two have in common? 	class website
АЗ.	Cell specializationTissue	CREATE NOTES FROM TEXTBOOK: p. 190 - 193
I can describe <u>cell</u> <u>specialization</u> .	OrganOrgan system	HANDOUTS/NOTES FROM CLASS:
I can describe levels of organization within multicellular organisms		MAKE NOTES on VIDEOS & WEBSITES on class website
A4.	processes of photosynthesis & cellular respiration: • where do the reactions occur?	CREATE NOTES FROM TEXTBOOK: Photosynthesis p. 200 -207 Cell Respiration p. 220 – 222
I can describe the roles of photosynthesis and cellular respiration with	 know the word equations for photosynthesis & cellular respiration 	Comparison p. 232 HANDOUTS/NOTES FROM CLASS:
I can compare photosynthesis and cellular respiration in	 know the simplified chemical equations (ie. no balancing of chemical equations required) for photosynthesis & cellular respiration 	MAKE NOTES on VIDEOS & WEBSITES on class website Biology 12 Cellular Respiration - by CS SCIENCE SPARK YouTube
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terms of the reactants, products, and chemical equations. I understand that these two chemical equations are the opposite of one another.	 what are the reactants? what are the products? where do the cells get the reactants for the reactions? what is the relationship between the two reactions? 	
A5. I can describe sexual and asexual reproduction	 mitosis meiosis budding conjugation 	CREATE NOTES FROM TEXTBOOK: p. 16 – 17 sexual vs. asexual p.244 – 259 (mitosis) p. 275 – 278 (meiosis) p.278 (compare mitosis & meiosis) p. 667 (budding) p. 475 (conjugation) HANDOUTS/NOTES FROM CLASS: MAKE NOTES on VIDEOS & WEBSITES on class website
I can demonstrate the correct use of the compound light microscope.	I understand all the microscope parts and their functions. I can focus on a specimen under low power, medium power and high power. I can make a wet mount slide. I can draw a specimen properly according to drawing guidelines I can estimate size of a specimen I can calculate drawing magnification of a proper scientific drawing	CREATE NOTES FROM TEXTBOOK: p. 1070 - 1071 HANDOUTS/NOTES FROM CLASS: • Lab activity: labelling the microscope • Microscope worksheets MAKE NOTES on VIDEOS & WEBSITES on class website