6-Corell/SCIENCE

ALL ASSIGNMENTS ARE DUE BY MAY 22ND!

Science for weeks #7, #8 and #9 ...

Week #7 (May $4^{th} - 8^{th}$)

Read the science textbook pages 40 - 46.

Complete the study guide for Chapter 1 Lesson 2

Complete the online Chapter 1 Lesson 2 quiz (Google Classroom)

Begin the Gizmo for *Cell Structure* – due May 15th (2 weeks to complete)

Week #8 – (May $11^{th} - 15^{th}$)

Read the science textbook pages 50-56

Complete the study guide for Chapter 1 Lesson 3

Complete the online Chapter 1 Lesson 3 quiz (Google Classroom)

Finish up the Gizmo for Cell Structure – due this Friday (May 15th)

Week $#9 - (May 18^{th} - 22^{nd})$

Read the science textbook pages 60-64

Complete the study guide for Chapter 1 Lesson 4

Complete the online Chapter 1 Lesson 4 quiz (Google Classroom)

ALL ASSIGNMENTS ARE DUE BY MAY 22ND!



Na	ame: Date	
	Student Exploration: Cell S	Structure
G	ocabulary: cell membrane, cell wall, centriole, chloroplast, cyto olgi apparatus, lysosome, mitochondria, nuclear membrane, nu astid, ribosome, vacuole, vesicle	oplasm, endoplasmic reticulum icleolus, nucleus, organelle,
Pr	ior Knowledge Questions (Do these BEFORE using the Gizr	no.)
1.	What are some of the structures inside a cell that help it to liv	e and perform its role in an
	organism?	
2.	How do you think plant cells differ from animal cells? (Hint: W cannot?)	
The and tab	e Cell Structure Gizmo allows you to look at typical animal diplant cells under a microscope. On the ANIMAL CELL of click Sample to take a sample of an animal cell. Use the com slider to see the cell at a magnification of 2000x (2000 es larger than normal). On the dropdown menu, select ntrioles. Use the up/down and left/right sliders to manipulate the cell. Find the red arrow pointing to the centrioles. Make a sketch of the centrioles in the space below.	
2.	Read the description of the centrioles. What is their function?	
	- 5	

Activity A: Animal cells

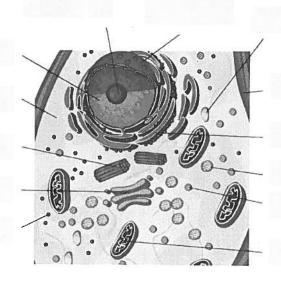
Get the Gizmo ready:

- Check that an Animal cell is mounted on the microscope.
- Check that the **Zoom** is set to 2000x.



Question: Organelles are specialized structures that perform various functions in the cell. What are the functions of the organelles in an animal cell?

1. <u>Label</u>: Locate each organelle in the animal cell. Label the organelles in the diagram below.



Matori. I toda about cacii organieni	c. IIIe	in match each organielle to its lunction/description.
Cytoplasm	A.	Structure that organizes motion of chromosomes.
Lysosome	B.	Stack of membranes that packages chemicals.
Mitochondria	C.	Membrane that protects the nucleus.
Centriole	D.	Membrane that surrounds and protects the cell.
Endoplasmic reticulum	E.	Sac filled with digestive chemicals.
Vacuole	F.	Structures that converts nutrients to energy.
Cell membrane	G.	Passageways where chemicals are made.
Nucleus	H.	Jelly-like substance within the cell membrane.
Ribosome	I.	Structure that manufactures ribosomes.
Nuclear membrane	J.	Structure that contains DNA and regulates genes.
Golgi apparatus	K.	Package created by the Golgi apparatus.
Vesicle	L.	Small structure that synthesizes proteins.
Nucleolus	M.	Sac that stores water, nutrients, or waste products.



Activity B:

Get the Gizmo ready:

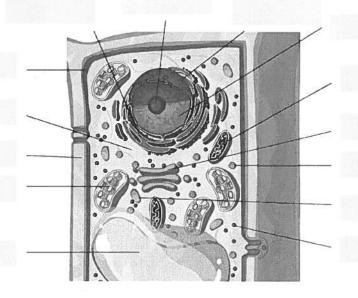
Plant cells

- Select the PLANT CELL tab, and click Sample.
- Set the **Zoom** to 2000x.



Question: What functions do the organelles in a plant cell perform?

1. <u>Label</u>: Locate each organelle in the plant cell. Label the organelles in the diagram below.



2.	Compare: What structures are present in an animal cell, but not in a plant cell? What structures are present in a plant cell, but not in an animal cell?						
3.			anelles that perform each of the followin	g functions.			
	A.	The state of the s	_ convert sunlight to chemical energy.				
	В.	The	and the	help to support			
		the plant cell and help it to	o maintain its shape.				
	C.	,—	store food or pigments.				
	D.	The	converts food into energy. It is fou	ind in both plant			
		cells and animal cells.					



Chapter 1 Lesson 2 pages 40 - 46

NAI	IE: Homeroom:
1.	A is the smallest unit of any organism
2.	Single celled organisms have how many cells?
3.	In both plant and animals, what is considered the next level of
	organization above cells?
4.	Digestion of food is completed in the
5.	Name the four tissue types:
	1.
	2.
	3.
	4.
6.	What does the villi provide in the small intestines?
7.	Your skin is considered what type of tissue?
8.	What type of tissue stores fat?
9.	Name the three types of muscle tissue.
	1.
	2.
	3.
10.	Name the four places nerve tissue would be found.
	1. <u> </u>
	2.
	3.
	4.
11.	An is a structure made up of at least two types
	of tissues that work together to perform a specific job in the body.
12.	Name your five sense organs.
	1.
	2.
0	3.
	4.
	5.
13.	Name the organ that removes toxins from your blood.

14.	are organs that supply oxygen to and
	remove carbon dioxide from the blood.
15.	Name the six organs in the digestive system.
	1.
	2.
	3.
	4.
	5.
	6.
16.	
	1.
	2.
	3.
	4.
	5.
17.	What is another name for the larynx?
18.	Each cell in your body needs and
19.	An is a complete living thing
	that relies on cells for life functions.
20.	The system includes the skin, hair
_ , ,	and nails, which cover and protect the body.
21.	The endocrine system makes and sends chemicals called
	to help control body activities
22.	
	1
	2.
-	
1	
17	
$\langle \rangle$	THE STATE OF THE S
1	

Chapter 1 Lesson 3 pages 50 – 56

Nam	ne: Homeroom:
1.	controls the way cells become specialized.
2.	A is a single-celled organism. It reproduces
	by making an exact copy of its material and then
	dividing.
3.	In, an egg cell and a sperm cell unite to
	form a single cell.
4.	Humans have pairs of chromosomes, or in all.
5.	An organism starts life as cell.
6.	Most of an organism's cells continue to divide over its .
7.	Every cell in your body has a copy of the that was contained in
	your original cell.
8.	DNA looks like a long, twisted Scientists call its
	shape a
9.	Mitosis has stages.
10.	During the first stage of mitosis, each in the
	duplicates itself.
11.	During the second stage of mitosis, the coil and
	shorten into structures.
12.	At what stage does the nuclear membrane dissolve?
13.	At what stage do the paired chromosomes line up along the center of the
	spindle?
14.	At what stage does the new nuclear membrane form?
15.	At what stage is mitosis complete?
16.	At what stage does the plant cell wall begin to form?
17.	Reproductive cells are produced by
18.	Human reproductive cells have only chromosomes.
19.	In meiosis, one cell becomes cells.
20.	New cells produced by mitosis have genetic material that is to
	that of the original cell. This means there is no difference
	between a parent organism and its
21.	Asexual reproduction occurs through
22.	Genetic variation is a result of .
23.	Which of the following is NOT true of a gene?
	a. can't be copies b. determines traits
	c. comes from parents d. is a piece of DNA
	T

Cha Nan	apter 1 Lesson 4 Reading Review Questions ne: Homeroom:
1	is considered the fother of consting
1. 2.	is considered the father of genetics. Gregor Mendel wondered how traits are passed on from one
۷.	to another.
3.	Mendel chose plants to study.
<i>4</i> .	Mendel cross pollinated pea plants for years.
5.	is the study of heredity.
6.	Name the only two colors that Mendel's pea plant experiment produced.
	1 2
7.	What was the ratio that Mendel discovered during the second generation of his pea plant experiment?
8.	A "stronger" trait is called the trait.
9.	A "weaker" trait is called the trait.
10.	
11.	Mendel's "factors" for inheritance are what we now call
12.	have instructions for making
	specific proteins.
	There are about genes on human DNA.
14.	Write dominant or recessive for the following traits:
	Cleft chin
	Dimples
	Attached earlobes
	Brown hair
	Red hair
	Brown eyes

	er 1 Lesson 2 Qu	iz	7.	242	ide in the Striainin	couries:
e Science textbook pages 40-46 Required	5			Mark only one oval.		
кецинес				surface area		
	li ₩			cell wall	6	
Email address *		:*:	* BI	. sensory receptors	8 9. 1	
			9	hormones	20	
A is the smallest ur	nit of any organism. *		8.	Select each type of mu	scle tissue (select	3) *
Mark only one oval.				Check all that apply		
cell				cardiac		-
organ				skeletal		
organ system				smooth		
tissue				spinal cord		
				xylem		
		1500 m ²⁷		^Jielii		
The andocrine system make	oc and conde oberviests as " 1		9			,
ontrol body activities. *	es and sends chemicals called _	to help	9.	Select the places nerve	tissue would be fo	ound (select 4) *
Mark only one oval.				Check all that apply		
				☐ brain		
hormones			38	spinal cord		
sensory receptors		ř.		nerves		
nerves			1.80	sensory receptors		7
blood	(9)			skin		
	A 11			lungs		
Select the two plant tissues	that transport water and nutrie	ents. *		eyes skeletal		
				Skeletal		
			l e			44
Check all that apply.				erest Saraus		amin' je
Check all that apply. xylem phloem		10		is a structure made up	of at least two typ	pes of tissues that
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Check all that apply. xylem		11	together tog	is a structure made up to perform a specific job one oval. e n n system ir sense organs (select 5)	in the body. *	pes of tissues that

2. 🐃	What is the name of the organ that removes toxins from your, blood? *	18. Select the huma	n tissue tvo	es (selec	+ A) *	
	Mark only one oval.	Check all that appl		C3 (3616C	(4)	
	liver	epithelial	ii			
	brain	connective				
		· muscle				
	heart	nerve				
	tongue	smooth				
	The second secon	cardiac				
		skeletal				
1	Name the organ that supplies oxygen to and removes carbon dioxic	de from the				
	blood.*					
	Mark only one oval.					00 00000000
	<u></u> .	19. Your skin is considered what type	of tissue? *			A 12 91.4
	lungs	Mark only one oval.				
	liver					
	kidneys	epithelial				
	heart	connective				-
	brain	aerve				
		muscle				
			10			
14	4. What is another name for the larynx? *	20. Select the correct type of the correct typ				
	Mark only one oval.	 Select the correct type of tissue batissue selected.* 	sed on the	clue. Ever	y row.will	have ONE
	voice box	Check all that apply.		1.19	· · · · ·	
	brain		Calab - P. I		# I	
	stomach	Lining of your air passages	Epithelial	Muscle	Nerve	Connective
	liver					
	-	Lines your internal organs				
		Cells are tightly packed together				
15	5. Each cell in your body needs these items to survive. (select 2) *					
	5. Learn centify your body freeds triese items to survive. (select 2) *	Stores fat				
	Check all that apply.	Bone and blood are examples				
	nutrients	and blood are examples				
	oxygen	Cartilage & fat cells are examples				
	cell walls	Elastic!				
	chloroplasts	Liusiic;				
	and the second s	There are 3 types of this tissue				9.
Α_	is a complete living thing that relies on cells for life function	S. *				
Ma	ark only one oval.	Moves bones and blood around the body				
		Found in the brain & spinal cord				
\subset	organism	Send messages from the brain		<u> </u>		
\subset	organ	ochd messages from the brain				
\subset	cell .	A				
\subset	issue	The same of the sa		-		
	*	21. The			63	Annual or an about 191 house from 181 and 191 a
	*** ·		em includes	the skin,	hair, and	nails. *
WE	hat is the correct order. *	Mark only one oval.				
**1		digestive ·				
Ma	ark only one oval.					
	cells - > tissue -> organ -> organ system -> organism	integumentary				
	_	respiratory				
	cells -> organ -> tissue -> organism -> organ system	circulatory				
_	cells -> organism -> organ system -> tissue -> organ					
	calle as organ evetem as ticque as organ a organism					

16.

17.

re Science Chapter 1 textbook pages 50-56 Required		8.	Every cell in your body	nas a copy o	of the	that was contained
cequired .			original cell. *		to 35 a	
			Mark only one oval.			
Email address *					01 00102 W	
			O DNA		5.#.SN 43	
	H. H.		mitosis			
- 4		(1)	meiosis			
This controls the way cells become specialized. *					in the state	
This controls the way cells become specialized.	9	. This	looks like a long twisted	ladder. Scie	ntists call its shap	e a double helix. *
Mark only one oval.	4.5	100	conly one oval.			
DNA			only one oval.			
	10.00	. \square	DNA **			(4)
single-celled) Chromosomes			
multi-celled) Mitosis			
) Meiosis	·		3 *
		_				
A paramecium is a celled organism. *						
Mark only one oval.	11	n	are alasso contra	LAL		,
main only one oval.	- [1		are pieces of DNA ir offspring. *	that carry a	III the information	passed from paren
single			5 842 T		Fi-8	20
multi		Mar	k oṅly one oval.			
			Genes			
an agg call and a charm call with the	£		DNA			
n, an egg cell and a sperm cell unite to	form a single ce	SII', (Mitosis			
Mark only one oval.			Meiosis			
sexual reproduction						
	*					29
asexual reproduction	11	1. Mito	osis has stages. *	•	94 D	
single-celled	4		-			
Humans have pairs of chromosomes.*	14 320	Mari	k only one oval.			
Mark only one oval.)1			
_		_) 2			4
23)3			
46)		(2)	
92) 4		S4 11	
1) 5			
)6			19
) =	- Control of the Cont	materi dan ere halam del arrais arras		- See 1
An organism stanta He	1	12. Rep	oroductive cells are prod	luced by	*	100
An organism starts life as cell. *	0.0			,		
Mark only one oval.		Ma	rk only one oval.			
		. —	Meiosis			
one		_	Mitosis			
two		_				
three				100	•	= =
four					_	
(96)	n 1	13. Hu	man reproductive cells h	nave only	chromoson	nes. *
		Ma	rk only one oval.			
Most of an organism's cells continue to divide over its						
continue to divide over its			⊃ 23			. /
Mark only one oval.			46			
Lifetime			92			
lifetime		\sim) 4	98.5		/-
Cells					All and the second sections	Te T
deoxyribonucleic acid			-			
one						

	CHANGE CO.			300	00 100	
14	In meiosis, one cell becomescells. *		20.	The contains the	chromosomes. *	
	Mark only one oval.			Adams and a second		
	Mark only one oval.		9	Mark only one oval.		
	<u>1</u>			nucleus	·	
				DNA		
				_	•	
	<u></u> 3			cell membrane ,		
	4			Chloroplast		
*						
	pri e e					
15	. Asexual reproduction occurs through	.*				
8	. Asexadi topi oddotion ocodio ililosgi.		21.	The threadlike packages of [DNA and protein are called	l
	Mark only one oval.	* ¥		Mark only one oval.		
				mark only one oral.		
	mitosis			chromosomes		
	meiosis			DNA		
	DNA	(genes		
(1.25 mm)	chromosomes	1		genes		100
	<u> </u>					

16.	Genetic variation is a result of*		22.	Body cells make more body	cells by *.	
			31	Adamle and to a manager		
	Mark only one oval.			Mark only one oval.	*	
	sexual reproduction			mitosis	15	
				meiosis		
	asexual reproduction			Inelosis		
	Mrg and					
					¥8	
17.	When an egg and sperm unite to form a single cell,	this is called	——·			
	Mark only one oval.					
	fertilization					
	DNA					
	Chromosomes					
	() mitosis	70€				
12.11						
	a re					
18	All cells divide at the same rate over their lifetime.	•				
						20
	Mark only one oval.			(2)		
	True					
	False					
	False					
_ S 5 P	The state of the s	*:	8. ,,			
19		how your body function	ns. You			
	got them from your parents!					
	Mark only one oval.					
	waik only one oval.					
1	Genes					
	Chromosomes					
19						
	Mitosis					
	Meiosis					

l

Textbook page 60-64 How Trait's are Inherited 7. Select either dominant or recessive for each clue. You may NOT select both for * Required the same clue.* Mark only one oval per row. Email address * Dominant Recessive "Stronger" trait "Weaker" trait \bigcirc He is considered the father of genetics. * Brown hair (humans) Mark only one oval. Brown eyes (humans) Gregor Mendel Red hair (humans) William Nye Blonde hair (humans) Robert Hooke Needs 2 factors to be expressed Needs only 1 factor to be expressed Gregor Mendel, the Austrian monk, chose this type of plant to study. * Cleft chin \bigcirc Mark only one oval. Dimples pea o tomato Attached earlobes \bigcirc (bean Purple pea flowers Corn White pea flowers Short pea plants Most flowers have both a male and female Tall pea plants Mark only one oval. reproductive Mendel's "factors" for inheritance are what we now call () leaf Mark only one oval. stem root genes • offspring recessive The study of heredity is called dominant Mark only one oval. genetics cross pollination heredity Mendel What is the ratio that Mendel discovered during the second genreation of his pea plant experiment? * Mark only one oval. 3:1 1:1 **2:1**

Science Chapter 1 Lesson 4 Quiz