

Cells Vocabulary List & Definitions

cytoplasm	inherited genetic material in a cell not specified by its own nucleus.
mitochondrion	any of the very tiny rod like or string like structures that occur in nearly all cells of plants and animals, and that process food for energy.
nucleolus	a small spherical body in the nucleus of a cell, consisting of protein and RNA.
nucleus	in biology, the part of a cell that controls growth and reproduction.
organ	in a plant or animal, a specialized structure that performs a particular function, such as the heart.
tissue	the mass of like cells in an animal or plant body, esp. as they form a specific organ.
vacuole	a membranous enclosure within a cell that contains substances isolated from the protoplasm, such as dissolved acids.
cell membrane	the semi-permeable membrane that encloses the contents of a cell; plasma membrane.
cell wall	the rigid outermost layer of a plant cell, which is made of cellulose.
chlorophyll	the green pigment in the leaves and stems of plants that is necessary for the production of plant food by photosynthesis.
chloroplast	a small oval green bit of protoplasm that contains chlorophyll and is the location of photosynthesis.
chromosome	one of the tiny, threadlike, DNA-containing bodies found in the cell nuclei of all plants and animals, responsible for transmitting hereditary characteristics.

Name _____

Date _____

Cells Word Search Worksheet

Directions: All words are positioned left to right.

P O N T Z E J U I N N B M B R H R D B T B J D
A T I S C P M F B T J S Z D F P A J O A B A X
C J N Y T Z C H U N Z N U C L E O L U S B N C
E C H L O R O P L A S T G I X N R A Z H E D O
D W H R A Z P B C M N P F R L G H P X Z H N M
I P Y O C H R O M O S O M E Y C I T D C S Y X
N T A D G M Y W E M N L J X O R G A N S H X S
R T Z C I W D S Z E V K A J B L M V C A U K I
D E M P K A K R W J O D C J C W V F D I X I F
B F X O P I G S T I S S U E S V D Z L J G M R
Z W P I C H L O R O P H Y L L V B P I A H D W
L W I G E B J I D D E H V A C U O L E M O R L
T R Z I E O J G V S M P Y X L N U C L E U S E
E V H V P M M M U Q U B E A M O H W N T S G C
S N I D Y N Z M X C Y Q D Y O F L Y S M A L S
B M I T O C H O N D R I A V O C C F S A Y V I
C Y T O P L A S M W K L F L L A K U F O C G V
P B K T R R R Q T A M U T J W U R J B W G G G

MITOCHONDRIA	CHLOROPHYLL	TISSUES	CHROMOSOME
CYTOPLASM	NUCLEOLUS	ORGANS	
CHLOROPLAST	NUCLEUS	VACUOLE	

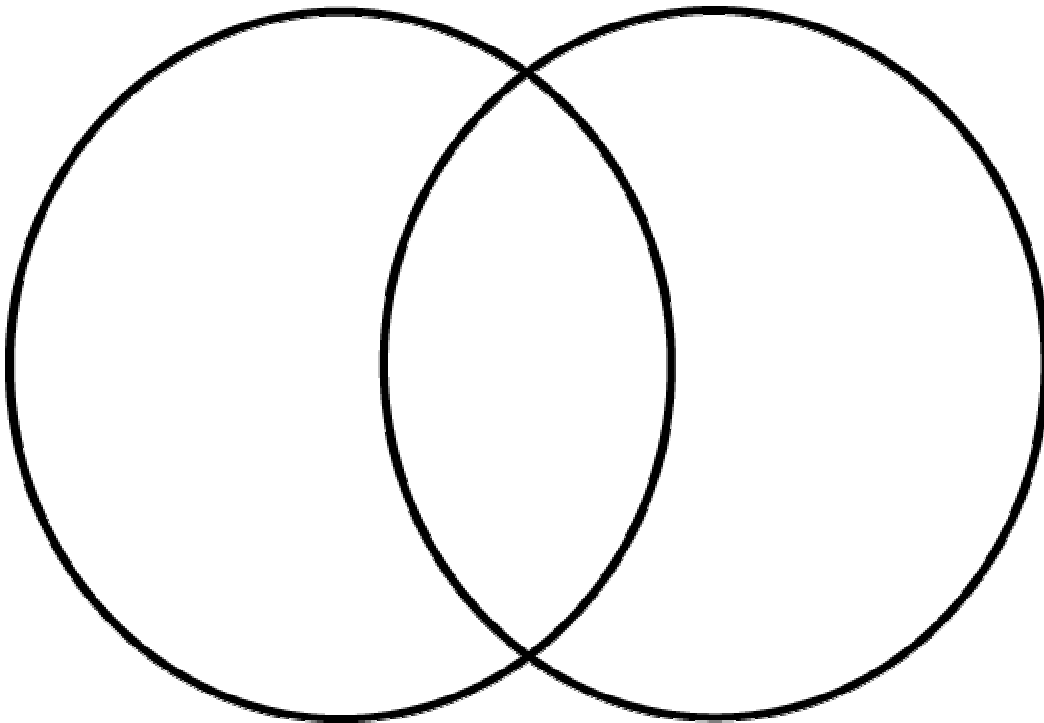
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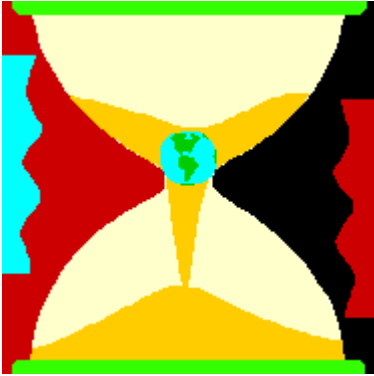
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Comparing Animal and Plant Cells Venn Diagram

Animal Cells

Plant Cells





Do The Research!

Cells

Directions: Research the topic indicated to the right and answer the questions below based on that topic.

Topic: Structure

<p>1. What are the three main differences between a plant and an animal cell?</p>	<hr/> <hr/> <hr/> <hr/>
<p>2. How many mitochondria does an average human muscle contain?</p>	<hr/> <hr/> <hr/> <hr/>
<p>3. How much DNA is in a typical human cell?</p>	<hr/> <hr/> <hr/> <hr/>

Cells Vocabulary Quiz

Directions: Match the vocabulary words on the left with the definitions on the right.

- | | |
|-------------------|---|
| 1. tissue | the central, essential, or highly concentrated part around which other parts are grouped. |
| 2. vacuole | a musical instrument consisting of a keyboard attached to a device that forces air through a number of pipes to produce a wide range of sounds; pipe organ. |
| 3. chromosome | a membranous enclosure within a cell that contains substances isolated from the protoplasm, such as dissolved acids. |
| 4. chlorophyll | the ground protoplasm of cells that is outside the nucleus. |
| 5. cell membrane | any of the very tiny rod like or string like structures that occur in nearly all cells of plants and animals, and that process food for energy. |
| 6. chloroplast | a small spherical body in the nucleus of a cell, consisting of protein and RNA. |
| 7. cell wall | the mass of like cells in an animal or plant body, esp. as they form a specific organ: |
| 8. nucleolus | one of the tiny, threadlike, DNA-containing bodies found in the cell nuclei of all plants and animals, responsible for transmitting hereditary characteristics. |
| 9. organ | the green pigment in the leaves and stems of plants that is necessary for the production of plant food by photosynthesis. |
| 10. cytoplasm | the rigid outermost layer of a plant cell, which is made of cellulose. |
| 11. nucleus | a small oval green bit of protoplasm that contains chlorophyll and is the location of photosynthesis. |
| 12. mitochondrion | the semi-permeable membrane that encloses the contents of a cell; plasma membrane. |

Name _____

Date _____

Cells Acrostic Poem

An acrostic poem is one where you choose a word or name and use each letter in the name as the beginning of a word or line that tells something about that person or topic.

Example: An acrostic poem using the word "Sun."

Sometimes when I go to the beach, I will get sun burn.

Usually, if I put sun block on my skin, I will not burn.

Noon is when I'm really prone to burning.

Write an Acrostic Poem using the word below.

C

E

L

L

S

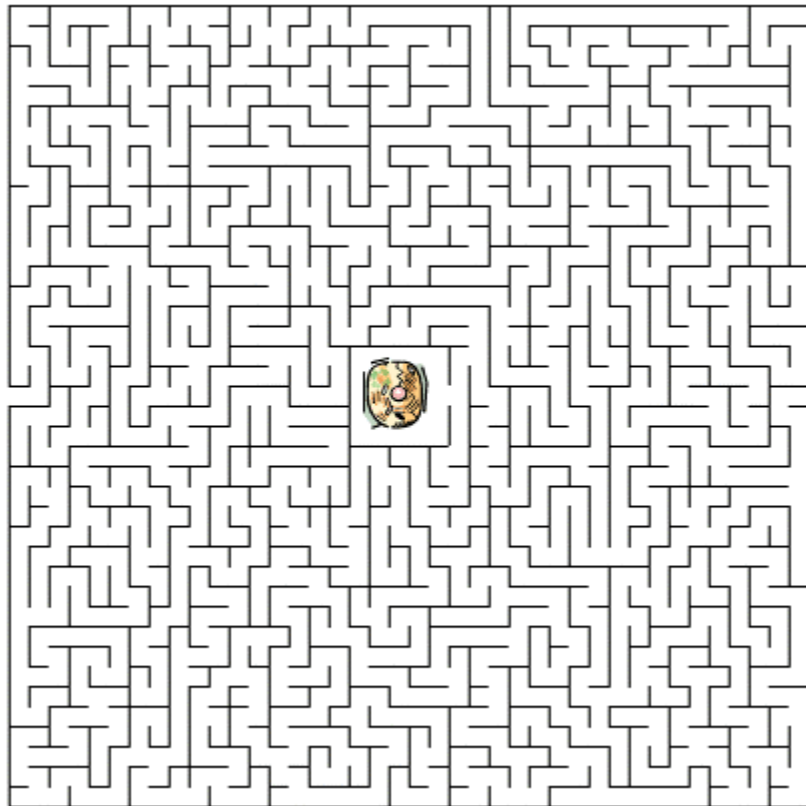
Name _____

Date _____

Cells Maze Worksheet

Directions:

Help the DNA find the cell.



Name _____

Date _____

Plant And Animal Cells KWL

K <i>What I Know</i>	W <i>What I Want To Learn</i>	L <i>What I Have Learned</i>



If I Was A.... ? Worksheet

Cells

<p>1. Choose an organelle from the cell. Pretend you are this organelle for the remaining questions.</p>	<p style="text-align: center;">_____</p> <p style="text-align: center;">Organelle Name</p>
<p>2. What's your job?</p>	<p>_____</p> <p>_____</p> <p>_____</p>
<p>3. How many others of you are there in your cell?</p>	<p>_____</p> <p>_____</p> <p>_____</p>
<p>4. Do you have any co-workers whose job and appearance is different from you?</p>	<p>_____</p> <p>_____</p> <p>_____</p>
<p>5. When food gets taken into the cell, what do you do?</p>	<p>_____</p> <p>_____</p> <p>_____</p>

Name _____

Date _____

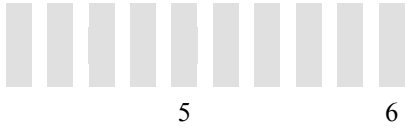
Cells Cryptogram Worksheet

Directions: Unscramble the words by placing the correct letter in the shaded boxes. Use the numbered boxes to complete the answer to the riddle.

RIDDLE: It contains powerful digestive enzymes that are used to destroy invading matter and unwanted cellular material.

Digestive centers of a cell.

OMHOMRECSO



COLUEVA



ULCNSUE



TPLOASMYC



LLWELAC



SUSTESI



IAOHINCRODTM



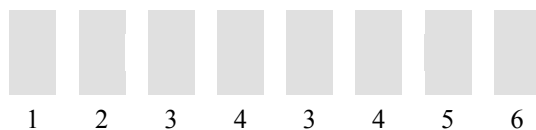
OCYLHRHPOLL



NAGRSO



ANSWER:



Name _____

Date _____

Cells Word Chop Worksheet

Directions: The table below contains words that have been chopped in half. Find the pieces that fit together and write them in the answer area below.

osome	vac	sues	chrom
tis	cell	chlor	org
leus	embrane	ophyll	eolus
ans	ondria	cell m	oplast
nucl	nuc	chlor	plasm
cyto	mitoch	uole	wall

Answers:

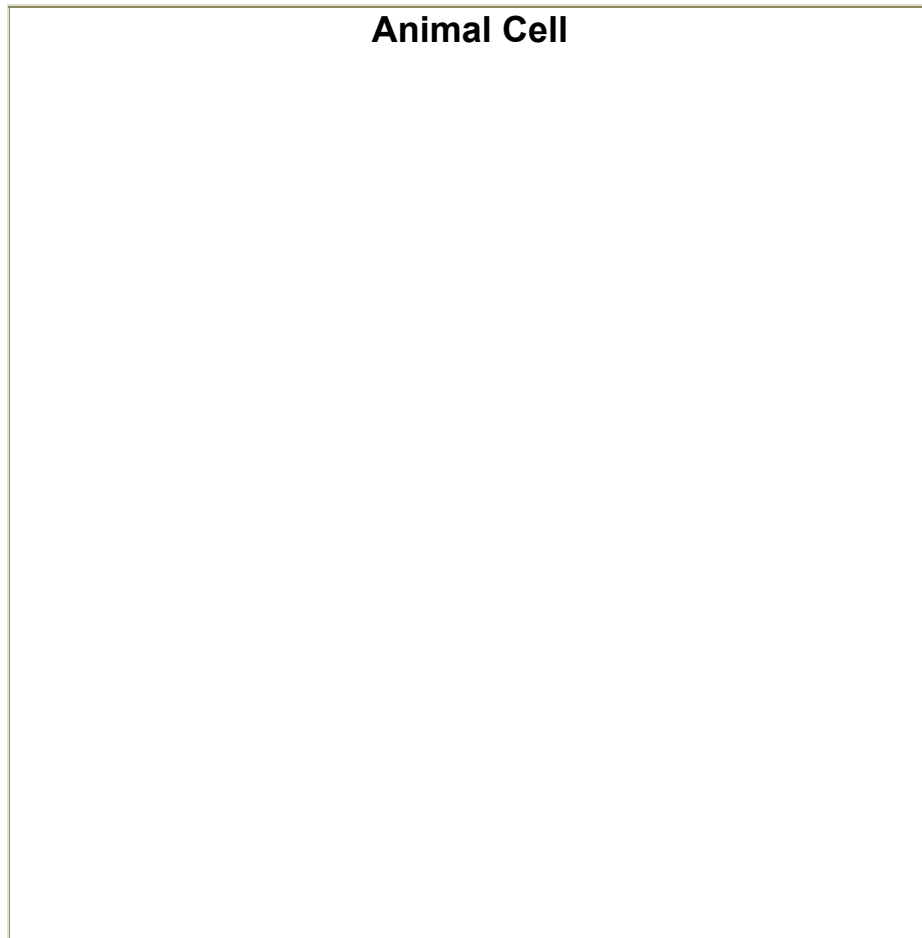
Name _____

Date _____

Drawing An Animal Cell

Directions: In the space provided below, draw an animal cell. Make sure to draw and label all of the parts listed below. Identify each part by coloring it the color indicated in the word box.

cell membrane (yellow)	nucleolus (blue)	lysosome (green)	cytoplasm (light green)
mitochondria (orange)	nucleus (red)	ribosome (black)	vacuole (brown)



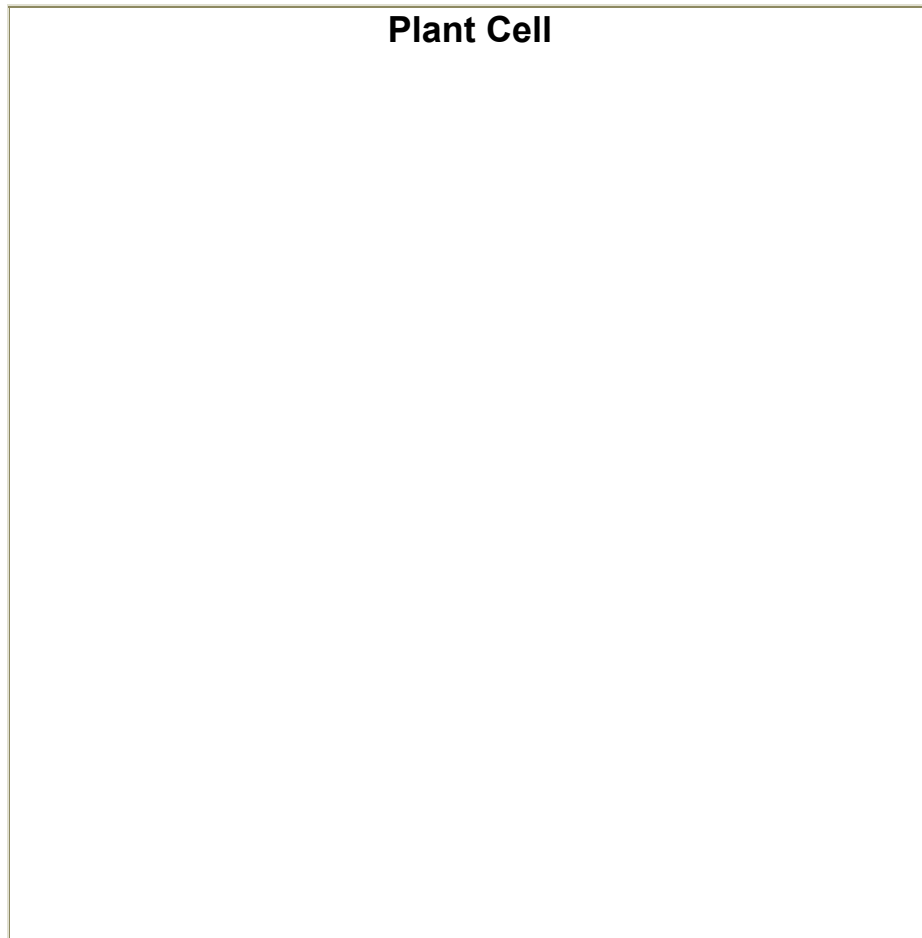
Name _____

Date _____

Drawing A Plant Cell

Directions: In the space provided below, draw a plant cell. Make sure to draw and label all of the part listed below. Identify each part by coloring it the color indicated in the word box.

cell membrane (yellow)	cell wall (blue)	chloroplast (green)	cytoplasm (light green)
mitochondria (orange)	nucleus (red)	ribosome (black)	vacuole (brown)



Name _____

Date _____

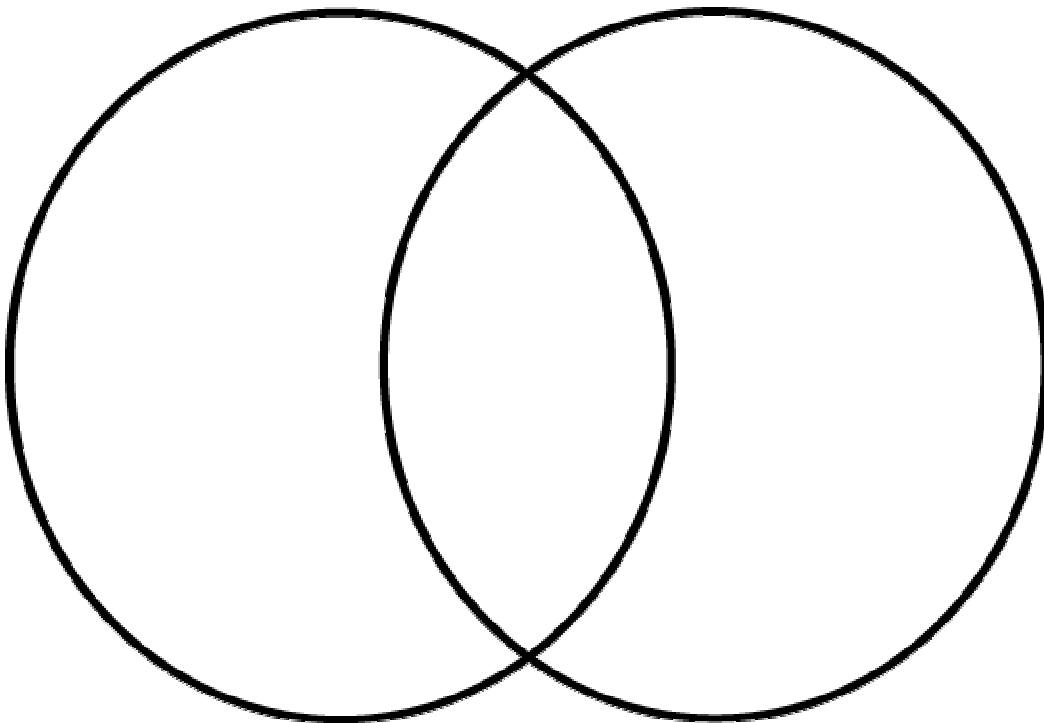
Comparing Plant And Animal Cells VENN Diagram

Directions: Fill in the VENN Diagram to compare and contrast *PLANT CELLS* to *ANIMAL CELLS*. Use the words in the word box.

cell membrane	cell wall	chloroplast	cytoplasm
mitochondria	nucleus	ribosome	vacuole

PLANT CELL

ANIMAL CELL



Name _____

Date _____

Comparing Plant And Animal Cells

Directions: Complete the chart below and answer the questions.

Cell Part or Organelle	Is It Found In A Plant Cell?	Is It Found In A Animal Cell?
Cell Membrane		
Cell Wall		
Chloroplast		
Chromatin		
Cytoplasm		
Endoplasmic Reticulum		
Golgi Bodies		
Lysosome		
Mitochondrion		
Nucleus		
Nuclear Membrane		
Nucleolus		
Ribosome		
Vacuole		

Questions:

1. What cell parts do animal cells have that plant cells do not have?
2. What cell parts do plant cells have that animal cells do not have?
3. Why do plant cells have cell walls and animal cells do not?
4. Why do think plant cells have bigger vacuoles than animal cells?

Name _____

Date _____

Answers to Cryptogram

OMHOMRECSO: Chromosome

COLUEVA: Vacuole

ULCNSUE: Nucleus

TPLOASMYC: Cytoplasm

LLLWELAC: Cell wall

SUSTESI: Tissues

IAOHINCRODTM: Mitochondria

OCYLHRHPOLL: Chlorophyll

NAGRSO: Organs

Riddle: Lysosome