

Skills Worksheet

# Chapter 1 section 2 Eukaryotic cells /31

## Section: Eukaryotic Cells

### CELL WALL

1. What is the function of a cell wall?

\_\_\_\_\_

2. What are the cell walls of plants and algae made of?

\_\_\_\_\_

3. What are the cell walls of fungi made of?

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### CELL MEMBRANE

4. What is a cell membrane?

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5. What are three types of compounds contained in the cell membrane?

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\_\_\_\_\_

6. What two substances control the movement of materials into and out of the cell?

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### CYTOSKELETON

\_\_\_\_\_ 7. A web of proteins in the cytoplasm is known as the

a. phospholipid.

c. cell membrane.

b. cytoskeleton.

d. organelle.

8. What are the two functions of the cytoskeleton?

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**Directed Reading A *continued***

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**NUCLEUS**

- \_\_\_\_\_ **9.** What is the genetic material contained inside a cell's nucleus?
- a.** protein
  - b.** lipids
  - c.** DNA
  - d.** nucleolis
- \_\_\_\_\_ **10.** The function of proteins in a cell is to
- a.** control chemical reactions.
  - b.** store genetic information.
  - c.** cover the nucleus.
  - d.** copy messages from DNA.
- \_\_\_\_\_ **11.** What is the nucleolus?
- a.** the opposite of the nucleus
  - b.** another name for DNA
  - c.** a network of fibers in the cytoplasm
  - d.** a dark area of the nucleus that stores materials and makes ribosomes

**RIBOSOMES**

- 12.** Organelles that make proteins are called \_\_\_\_\_.
- 13.** Proteins are made of \_\_\_\_\_.

**ENDOPLASMIC RETICULUM**

- 14.** A system of folded membranes in which proteins, lipids and other materials are made is the \_\_\_\_\_.
- 15.** Two forms of endoplasmic reticulum are \_\_\_\_\_ and \_\_\_\_\_.

**MITOCHONDRIA**

- \_\_\_\_\_ **16.** What function does a mitochondrion perform?
- a.** It breaks down sugar to produce energy.
  - b.** It makes proteins.
  - c.** It breaks down toxic materials.
  - d.** It stores material used to make ribosomes.
- 17.** The site of cellular respiration is the \_\_\_\_\_.
- 18.** Energy produced in mitochondria is stored in a substance called \_\_\_\_\_.

**Directed Reading A *continued***

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**CHLOROPLASTS**

- \_\_\_\_\_ **19.** Chloroplasts are organelles that are found in the cells of  
**a.** animals. **c.** mitochondria.  
**b.** plants and algae. **d.** all eukaryotic cells.
- \_\_\_\_\_ **20.** Which process happens inside a chloroplast?  
**a.** production of ATP **c.** photosynthesis  
**b.** production of DNA **d.** formation of animal cells
- \_\_\_\_\_ **21.** Chloroplasts are green because they contain  
**a.** sugar. **c.** chlorophyll.  
**b.** proteins. **d.** DNA.

**GOLGI COMPLEX**

- \_\_\_\_\_ **22.** The function of the Golgi complex is to  
**a.** produce sugar and water.  
**b.** package and deliver proteins.  
**c.** produce oxygen.  
**d.** trap energy from the sun.

**CELL COMPARTMENTS**

- 23.** A small sac that surrounds material to be moved into or out of a cell  
is a(n) \_\_\_\_\_.

**CELLULAR DIGESTION**

- 24.** What is a lysosome?

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\_\_\_\_\_

- 25.** What is the function of lysosomes?

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- 26.** What function do vacuoles perform in plant and fungal cells?

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