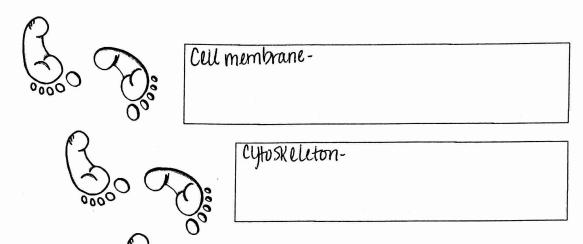
Walking With Ryan

During the video/DVD, Ryan takes several steps to find his way out of the cell. As you watch and listen to the characters he meets, record their jobs below.



E		
·	E	

endoplasmic reticulum-

Golgi apparatus.



vesicle

Walking With Ryan (cont.)

During the video/DVD, Ryan takes several steps to find his way out of the cell. As you watch and listen to the characters he meets, record their jobs below.

	Usosome-
	Mitochondria-
Centrole	
nucleus	

What Am I?

Use the clues to determine which cell organelle is being described. Write the name of the organelle after the question.

1. I teel like jelly, but my job is important. I am the place where molecules are broken down to produce energy and where other molecules are built up. What am I?
2. I am a thin layer that surrounds the cell. I hold all of the organelles in place. I let some things into the cell and keep others out. What am I?
3. I am strong like a bone. I provide support, strength and shape to the cell. My long thin structures are made of protein. What am I?
4. I can be rough or smooth, but my job is to make macromolecules like proteins, lipids, and complex carbohydrates. I also separate molecules that go to the cytoplasm from those that go to other sites. What am I?
5. I am made in the nucleolus and found on rough endoplasmic reticulum. I synthesize protein and send it to different parts of the cell. What am I?
6. I hang out with vesicles and I collect, modify, and package substances manufactured by the cell. What am I?
7. I eat and eat debris, old organelles and large ingested particles within the cell. If I get too full and burst, my digestive enzymes will destroy the whole cell. What am I?
8. I am called the powerhouse of the cell. I have two membranes where I break down sugars and fatty acids to trap energy. I am self-replicating and have my own DNA. What am I?
9. I hang out near the nucleus. My job is to organize microtubules and migrate to the ends of the cell to assist in mitosis. What am I?
10. I am the brains of the operation. I direct all of the organelles and keep track of the DNA in my membrane. What am I?

Cell Knowledge Quiz

Choose the best answer for each question.

- of the cell. 1. The nucleus is sometimes called the
 - a. powerhouse

 - b. gatekeeper c. control center d. transporter
- 2. Mitochondria are self-replicating which means they.
 - a. divide and make copies of themselves
- b. provide support, strength, and shape to cells
 - c. hold organelles in place d. transport digestive enzymes
- 3. Ribosomes can be found
- a. in the cytoplasm
- b. on the endoplasmic reticulum c. in the centrioles

 - - d. A and B
- 4. Which of the following are organelles?
- a. Mitochondria
- c. Golgi apparatus d. All of the above
- 5. Which of the following contains its own DNA?
 - a. Golgi apparatus b. Mitochondria c. Endoplasmic reticulum
- d. Cytoplasm
- 6. Cell division is known as
 - a. Mitosis b. Prophase
- c. Telophase d. Reproduction

Cell Knowledge Quiz (cont.)

Choose the best answer for each question.

- 7. Every living thing is composed of
 - a. cells
- b. organelles c. cytoskeleton d. DNA
- has the job of exporting and importing nutrients as well as passing waste and unwanted particles outside the cell.
- a. mitochondria
 - b. cell membrane
- c. cytoplasm d. All of the above
- would leak into the cell and digest it. 9. If a lysosome breaks, the
 - a. cytoskeleton b. digestive enzymes
 - c. nuclear membrane

 - d. cytoplasm
- _ information. 10. DNA carries

 a. speed of cell division
 b. the stages of mitosis
- c. genetic d. centriole movement