NAME:	
11/\/\/\L.	

HIDDEN LIFE OF THE CELL: VIEWING GUIDE

Answer questions below while watching to the BBC video "Our Secret Universe: **Directions:** The Hidden Life of the Cell." You can access the video at http://www.youtube.com/watch?v=4GZXRMG5i w. 1. How many cells make up the human body? _____ 2. _____ are the ancient enemies of cells, changing the course of evolution over years. 3. Cells are the basic building blocks of _____ and the smallest unit of what makes us human. 4. True or False: All of the cells in your body contain the same instructions. 5. are chains of complex chemicals that act as _____ in the cell. 6. What is the role of the motor proteins? 7. What metaphor is used to describe the nucleus and DNA? 8. In every cell in your body there is _____ feet of DNA. 9. Little goes to waste in the cells. Used and faulty proteins are broken down by check the proteins samples for signs of damage and infection in nearby cells. 11. The human body's first line of defense against viruses and bacteria is our _____. However, openings in the _____ like _____ provide places for pathogens to enter the body. 12. The aim of each adenovirus is to breach a cell's defenses and reach the _____ 13. _____are y-shaped proteins that identify alien intruders and patrol the space between cells. They work in tandem with 14. Small molecules like _____ can seep through the cell's membrane. 15. Viruses have evolved to include _____ recognized by _____ that transport the virus into the cell.

16. Why might a virus not be classified as a living thing?

11111	
NAME:	
14/ \/VIL.	

HIDDEN LIFE OF THE CELL: VIEWING GUIDE

Answer questions below while watching to the BBC video "Our Secret Universe: Directions: The Hidden Life of the Cell." You can access the video at http://www.youtube.com/watch?v=4GZXRMG5i w. 1. How many cells make up the human body? _____ 2. _____ are the ancient enemies of cells, changing the course of evolution over years. 3. Cells are the basic building blocks of _____ and the smallest unit of what makes us human. 4. True or False: All of the cells in your body contain the same instructions. 5. are chains of complex chemicals that act as _____ in the cell. 6. What is the role of the motor proteins? 7. What metaphor is used to describe the nucleus and DNA? 8. In every cell in your body there is _____ feet of DNA. 9. Little goes to waste in the cells. Used and faulty proteins are broken down by check the proteins samples for signs of damage and infection in nearby cells. 11. The human body's first line of defense against viruses and bacteria is our _____. However, openings in the _____ like _____ provide places for pathogens to enter the body. 12. The aim of each adenovirus is to breach a cell's defenses and reach the 13. ______are y-shaped proteins that identify alien intruders and patrol the space between cells. They work in tandem with _____ 14. Small molecules like _____ can seep through the cell's membrane. 15. Viruses have evolved to include _____ recognized by _____ that transport the virus into the cell. 16. Why might a virus not be classified as a living thing?

	NAME:
	of the viruses that enter the cell will simply end their journeys, floating in the cell because the viruses
	—unless it hijacks a motor protein.
	It takes about for the adenovirus to enter the cell and reach the nucleus.
	Scientists recently discovered a mechanism inside cells thatby recognizing antibodies on the surface of the virus.
20.	It takes to take control of a cell.
21.	In what way is a virus like a cell?
	The membrane of the nucleus is made of the same materials as the However, the transport mechanisms are different.
	To enter the nucleur membrane, the pull in opposite directions and tear the virus apart, allowing a to enter the nucleus.
24.	The DNA of a virus has only genes.
25.	Outside of the nucleus, construct viral proteins.
26.	Before the virus shuts down all cell activity, a message can be sent to using a vesicle that contains fragments of the virus. Patrolling can destroy the entire cell and the virus inside.
27.	After hours, the entire focus of the cell is to build a new army of viruses. After days, the nucleus can contain up to new viruses.
28.	Meanwhile, outside the cell, and are prepared to attack the viruses that erupt from the destroyed cell.
29.	Surrounding healthy cells even to keep the virus from spreading
30.	The of cells and viruses is like an arms race. Even if one cell dies because of a virus attack, the entire multicellular organism generally gets better.