CELL STRUCTURE AND FUNCTION VIDEO

View http://www.youtube.com/watch?v=o1GQyciJaTA&feature=related and fill in blanks below.

| 1. A is the smallest unit of life. A <i>cell</i> is the | of all living |
|--|---------------------------------------|
| things. | |
| 2. Organisms are made up of | (such as the digestive |
| system). Organ systems are made up of (comprised of) | (such as the liver, |
| stomach, and small intestines). <i>Organs</i> are made up of | (which are a group of |
| similar cells that perform the same function), such as epithelial tis | sue or smooth muscle tissue. |
| Tissues are made up of (which is the smalle | est unit of life). Cells are composed |
| of (like mitochondria) and | like DNA and |
| phospholipids. | |
| 3. There are 2 major classifications of cells: | and |
| 4. Prokaryotes are and | d include *bacteria*. |
| 5. Eukaryotic cells make up more organism | ns like plants and animals. |
| 6. Prokaryotes lack a membrane bound | "PRO has NO" |
| 7. Eukaryotic cells contain a membrane boundin one part of the cell. They also contain many other membranous | |
| CELL CITY ANALOGY | |
| 8. The cell membrane is like the | |
| 9. The nucleus is like the | |
| 10. The mitochondria is like the | |
| 11. Cells use as its energy currency. | |

| 12 | are like factories because they assemble proteins. | | | |
|-------------------------------|--|--------------------------|--|----------|
| 13. The | acts as a | a post office, because | e it packages and modifies proteins. | |
| | | | system for the cell by creating | ıg |
| passage ways used | to transport prote | ins throughout the co | ell. | |
| | | filled sacs that act as | the trash man for the cell – digesting | and |
| recycling worn out | organelles. | | | |
| | etween plant cells | | | |
| | | | | |
| Going further | | | | |
| Biomolecules and organelles - | → | - | → | ganism |
| Can you name ano | ther organ system? | ? | | |
| What two organell | es function in ener | gy production? | | |
| | | | | |
| How does the stru | cture of a phosphol | lipid contribute to its | ability to form a lipid bilayer (draw and ex | крlain). |
| Ribosomes assemb | ole proteins. What | is the raw material th | nat ribosomes use to build a protein? | |
| | | | ucing glucose (photosynthesis). What nydrogen and oxygen confirm this? | type |
| or pio molecule is § | sincose: now does | s its ratio of carbon, f | iyurogen anu oxygen comini mis? | |