

13-2 What Am I?

1. I feel 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.
I am _____.
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.
I am _____.
3. I am strong like a bone. I provide support, strength, and shape to the cell. My long thin structures are made of protein.
I am _____.
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.
I am _____.
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.
I am _____.
6. I hang out with vesicles and I collect, modify, and package substances manufactured by the cell. I am _____.
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. I am _____.
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. I am _____.
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.
I am _____.
10. I am the brains of the operation. I direct all of the organelles and keep track of the DNA in my membrane. I am _____.