

## Cell Organelles

### Both in animal and in plant cells:

1. **Mitochondrion** is the \_\_\_\_\_ of the cell. It is the site of \_\_\_\_\_. It has a \_\_\_\_\_ membrane. The inner membrane is where most \_\_\_\_\_ respiration occurs. The inner membranes is \_\_\_\_\_ with a very large surface area. These ruffles are called \_\_\_\_\_. Mitochondria have their own \_\_\_\_\_ and manufacture some of their own \_\_\_\_\_.
2. **Rough Endoplasmic Reticulum (ER)** is a series of double membranes that \_\_\_\_\_ back and forth between the cell membrane and the \_\_\_\_\_. These membranes fill the \_\_\_\_\_ but you cannot see them because they are very \_\_\_\_\_. The rough E.R. has \_\_\_\_\_ attached to it. This gives it its texture. These **ribosomes** manufacture \_\_\_\_\_ for the cell. The ribosomes are the \_\_\_\_\_ which manufacture proteins.
3. **Smooth E.R.** \_\_\_\_\_ ribosomes. It acts as a \_\_\_\_\_ throughout the cytoplasm. It runs from the cell membrane to the nuclear \_\_\_\_\_ and throughout the rest of the cell. It also produces \_\_\_\_\_ for the cell.
4. **Cell Membrane** performs a number of critical functions for the \_\_\_\_\_. It regulates all that \_\_\_\_\_ and leaves the cell; in multicellular organisms it allows \_\_\_\_\_ recognition
5. **Golgi Body** is responsible for packaging \_\_\_\_\_ for the cell. Once the proteins are produced by the \_\_\_\_\_ E.R., they pass into the \_\_\_\_\_ like cisternae that are the main part of the Golgi body. These proteins are then squeezed off into the little \_\_\_\_\_ which drift off into the cytoplasm.
6. **Nucleus** is called the \_\_\_\_\_ of the cell. It is a large \_\_\_\_\_ spot in eukaryotic cells. It \_\_\_\_\_ all cell activity. The nuclear membrane has many \_\_\_\_\_. The thick ropy strands are the \_\_\_\_\_. The large solid spot is the \_\_\_\_\_. The nucleolus is a \_\_\_\_\_ chromatin. It manufactures \_\_\_\_\_. The chromatin is \_\_\_\_\_ in its active form. It is a \_\_\_\_\_ of DNA and histone proteins. It stores the information needed for the manufacture of \_\_\_\_\_.