**Sc 9. Cell Organelles and Plant vs. Animal Cells:**

**Review of Science 8**

**cell membrane - thin covering that controls the flow of materials in and out of the cell.**

**cell wall - tough, rigid structure that surrounds cell membrane, provides protection and structural support**

**cytoplasm - jelly-like substance contains the organelles (specialized cell parts)**

**mitochondria - provide energy for cells**

**chloroplasts - trap energy from Sun to make glucose, food for the plant**

**ribosomes – site of protein synthesis**

**endoplasmic reticulum - membrane-covered channels that act as a transport system for materials made in the cell**

**vesicles - membrane-covered sacs formed by the endoplasmic reticulum. Vesicles transport new proteins to the Golgi body.**

**Golgi body - sorts and packages proteins for transport**

**vacuoles - membrane-bound storage containers**

**large vacuoles - plant cells are equipped with a large vacuole for storing water x**

**nucleus - controls all cell activities**

**nuclear membrane - protects the contents of the nucleus**

**nucleolus - membrane-free organelle that makes ribosomes**

