Biology Activity Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Eukaryotic Cells: Animals and Plants

*Use the following key to color code the cell parts based on the descriptions of their functions (Remember…not all of these organelles will be on both cells). Use each clue to determine the organelle and then write the name on the line provided.*

**Yellow:** digests and recycles food particles and other materials with the use of enzymes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Red:** Provides energy (ATP) to the cell \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Pink:** Fluid, jellylike material that takes up a great deal of space inside the cell \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Dark green:** processes proteins, packages them, and secretes them out of the cell with the use of vesicles \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Dark blue:** involved in the manufacture of ribosomes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Orange:** transports proteins to the Golgi apparatus and helps with the production of lipids\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Dark purple:** allows certain molecules into and out of the cell \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Light blue:** controls all cell activities and contains DNA \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Black:** responsible for making proteins \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Light green:** stiff fibrous layer that surrounds the cell membrane in plants, fungi and protist cells\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Light purple:** saclike structure that stores fluids in plants \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Dark pink:** contains chlorophyll; green; necessary for photosynthesis \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Biology Activity Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Eukaryotic Cells: Protists

*Use the following key to color code the cell parts based on the descriptions of their functions. Use each clue to determine the organelle and then write the name on the line provided.*

**Orange:** Specialized structure that stores then eliminates excess water from the cell \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Purple:** Allows certain molecules into and out of the cell\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Green:** Temporary projection of the cell membrane used for movement and taking in food \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Black:** Region used to detect light for photosynthesis \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Yellow:** Numerous, tiny projections used in the movement of the cell \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Red:** Long, whip-like “tail” used for movement\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Light blue:** controls all cell activities and contains DNA \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_