

| <b>Animal Cell Component</b>                  | <b>Description/Function</b>  | <b>Candy (suggestion)</b>  |
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| Cellular membrane                             | Controls entry into and out of the cell; protects cell from the environment  | Licorice strands   |
| Nucleus                                       | The central information center of the cell, housing the chromosomes (in nucleolus).  | Big gumball, jawbreaker, or circular blob of dyed frosting   |
| Mitochondria                                  | The power plant of the cell. Mitochondria generate the cell's energy by using oxygen to release energy stored in cellular nutrients. Respiration also occurs in the cell mitochondria. | Fruit slices or Tootsie Roll®  |
| Endoplasmic reticulum [ER] (rough and smooth) | Transport network and surface for nutrients – package and store protein  | Gummy worms (use sugar-coated for rough ER and plain for smooth ER)                                |
| Golgi apparatus                               | Packages and distributes energy  | Folded-over candy strips (such as Rainbow Tracks™) or hard ribbon candy                            |
| Cytoplasm                                     | “Jelly” in which organelles float  | Colored frosting (you may use frosting gel if you want to illustrate the texture of the cytoplasm) |
| Lysosomes                                     | Store energy produced in Golgi apparatus   | Mike & Ike®s   |
| Vacuole                                       | Stores food and waste (the warehouse of the cell); usually one big one in plants, multiple smaller ones in an animal cell  | Dots® (use just one color) or Trolli® Gummi Apple O's®   |
| Ribosomes                                     | Protein makers (they are found near the rough ER and floating in the cytoplasm)  | M&Ms®, Skittles®, or Raisinets®  |