**Honors Biology I**

**Pichette** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_

**Cell Structure and Function Chart:** Look up the structure and function of each item found in living cells and fill in the chart below. Use your book (Chapter 4) and the notes in class to help you.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Cell Structure** | **Function** | **Location** | **Sketch of organelle** | **Plant/Animal/Both?** |
| Nucleus |  |  |  |  |
| Nuclear envelope |  |  |  |  |
| Chromosomes  |  |  |  |  |
| Nucleolus |  |  |  |  |
| Ribosomes |  |  |  |  |
| Smooth ER |  |  |  |  |
| Rough ER |  |  |  |  |
| Vesicles |  |  |  |  |
| Golgi Apparatus |  |  |  |  |
| Lysosome |  |  |  |  |
| Vacuoles Food Contractile Central |  |  |  |  |
| Mitochondria  Cristae Matrix |  |  |  |  |
| Chloroplasts Thylakoids Grana  Stroma |  |  |  |  |
| ChromoplastsAmyloplasts |  |  |  |  |
| PeroxisomeGlyoxysome |  |  |  |  |
| Cytoskeleton Microtubules Microfilaments |  |  |  |  |
| Centrosomes Centrioles |  |  |  |  |
| Cilia |  |  |  |  |
| Flagella |  |  |  |  |
| Basal Body |  |  |  |  |
| 9 + 2 arrangement |  |  |  |  |
| Cell wall  |  |  |  |  |
| Cell (plasma) membrane |  |  |  |  |
| Cytosol (cytoplasm) |  |  |  |  |