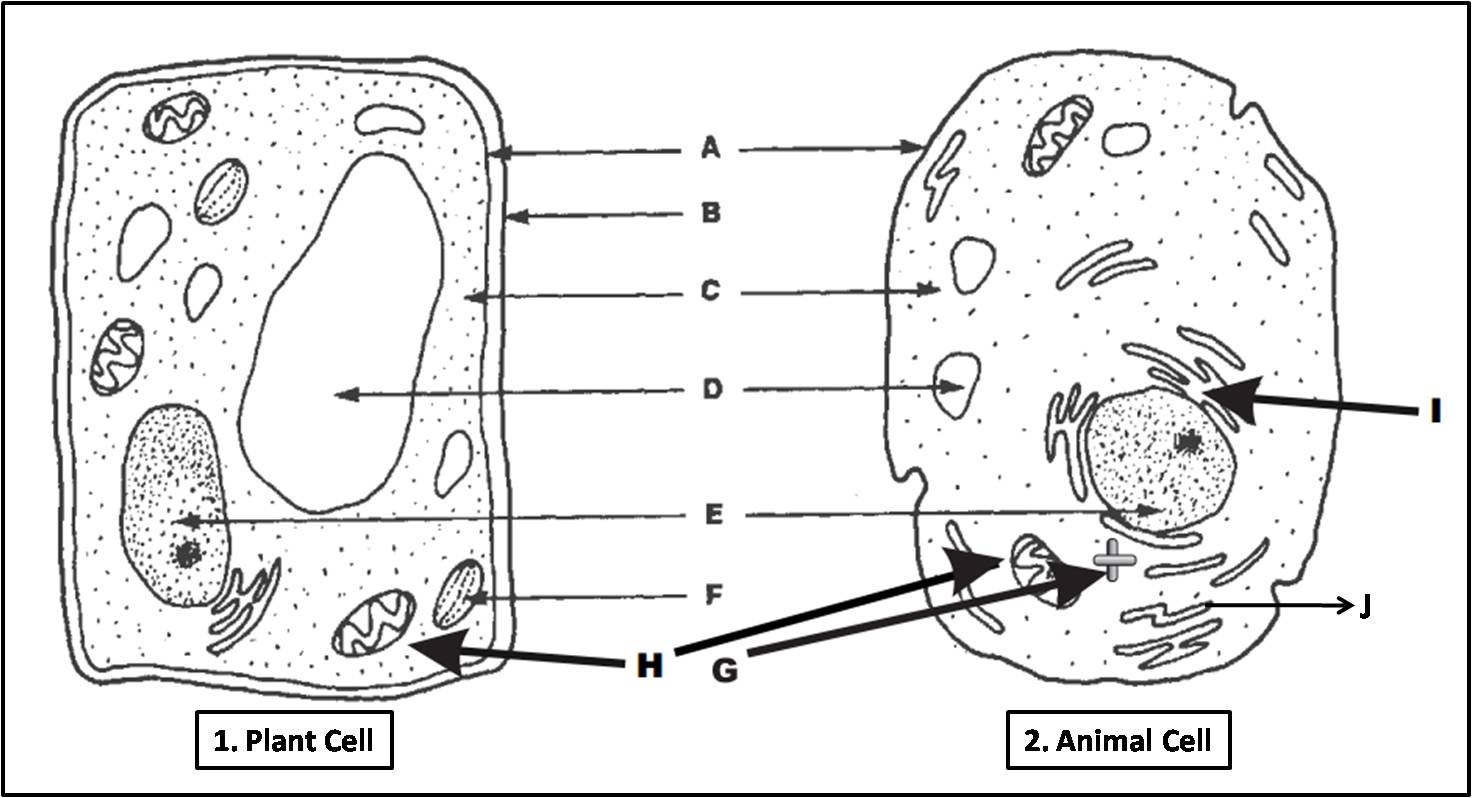
**Inside the Cell**



**Inside the Cell**

|  |  |
| --- | --- |
| http://www.animalport.com/img/Animal-Cell.jpg | http://www.eecs.berkeley.edu/Programs/doublex/spring03/strawberrydna_files/image003.jpg |

Organelle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Functions:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Function 1 – Produce Energy | Function 2 – Build/Transport Materials | Function 3 – Store/Recycle Materials |
| Job Description |  |  |  |
| Organelles that do that job |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of Cell Part** | | **Job** | **Picture** |
| Cell Membrane | |  |  |
| Cell Wall | |  |  |
| Nucleus  (Chromatin) | |  |  |
| Cytoplasm | |  |  |
| Mitochondria | |  |  |
| Chloroplast | |  |  |
| Vacuole | |  |  |
| Endoplasmic Reticulum | Rough |  |  |
| Smooth |  |
| Ribosome | |  |  |
| Golgi Body (Apparatus) | |  |  |
| Lysosome | |  |  |

**Specialization of Cells:**

Specialized Cells: ­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

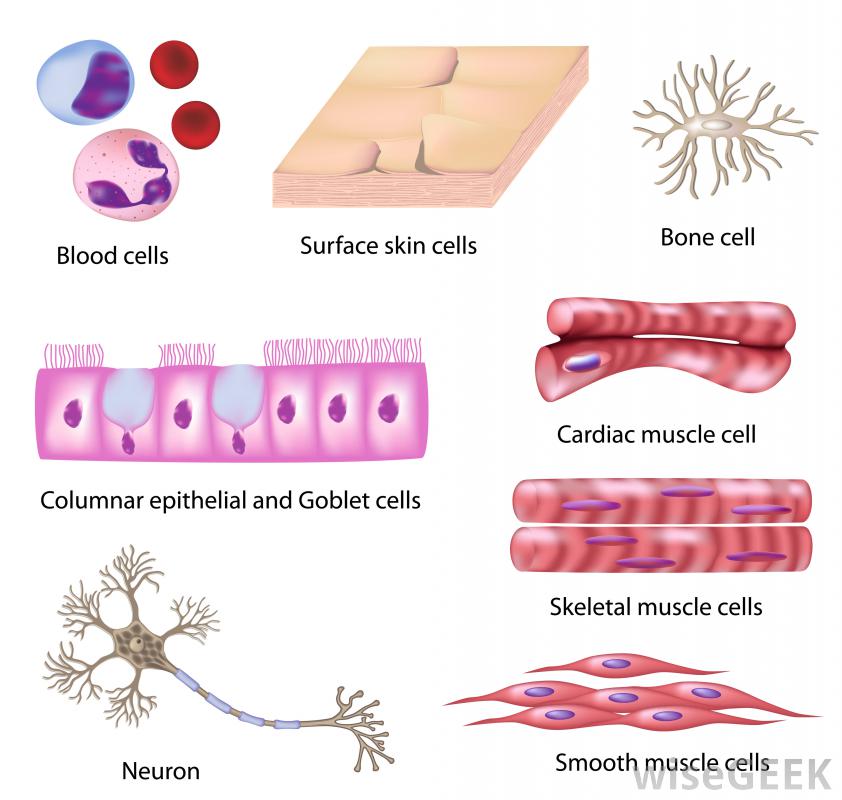
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Cell differentiate to do specific functions required by a part of the body.

Watch the [video](http://www.pbslearningmedia.org/resource/tdc02.sci.life.stru.different/cell-differentiation/) and explain what you learn.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Cell Organization:**

|  |  |  |
| --- | --- | --- |
| **Life Function** | **Cell Organelle** | **Organ System** |
| Ingestion/Digestion |  |  |
| Waste Removal |  |  |
| Stimulus Response |  |  |
| Grow/Develop/Repair |  |  |
| Gas Exchange |  |  |
| Reproduction |  |  |
| Homeostasis |  |  |

**Human Body Systems:**

Circulatory

Digestive

Endocrine

Integumentary

Lymphatic

Muscular

Nervous

Reproductive

Respiratory

Skeletal

Urinary

Hierarchy of Life