**UNIT 1.1 NOTES: THE CELL**

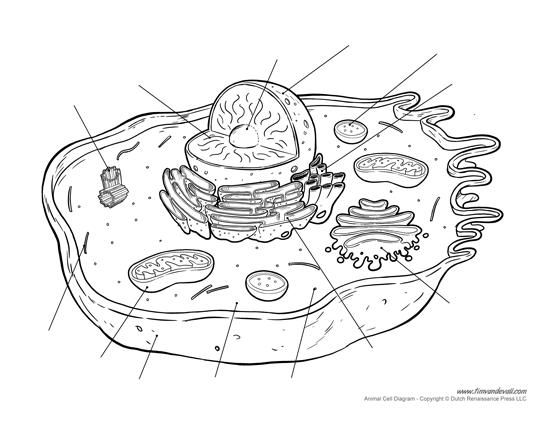
**Genetics**

*the study of characteristics of organisms and how those characteristics are controlled & passed from one generation to the next.*

**THE CELL**

The cell is the basic building block of life. All organisms are made up of one or more cells. Label the parts of the cell in the diagram below using the following terms:

***Cell membrane, cytoplasm, mitochondria, nucleus, nuclear membrane, nucleolus, chromatin, ribosome, vesicles, smooth endoplasmic reticulum, rough endoplasmic reticulum, Golgi apparatus, centrioles, cytoskeleton***



**CELL STRUCTURES & GENETICS**

Certain cell structures are very important in the study of genetics. These cell structures are those closely involved with DNA and proteins. Describe the structure and function of each cell part below.

|  |  |  |
| --- | --- | --- |
|  | **STRUCTURE** | **FUNCTION** |
| **Nucleus** |  |  |
| **Nucleolus** |  |  |
| **Chromatin** |  |  |
| **Chromosomes** |  |  |
| **Ribosomes** |  |  |
| **Rough Endoplasmic Reticulum** |  |  |
| **Golgi Apparatus** |  |  |
| **Centrioles** |  |  |
| **Cytoskeleton** |  |  |