

**Anatomy and Physiology Homework: Chapters 3-4**

**CHAPTER 3: Cells and Tissues**

1. The smallest unit of living tissue is called a \_\_\_\_\_. All living organisms are composed of these basic units where all life processes occur. These units are composed of four elements:

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.

2. Living matter is \_\_\_\_\_% water (H<sub>2</sub>O)

3. The three parts of living cells are:

Nucleus

Cytoplasm

Plasma membrane

**4. Cell transport and reproduction**

Passive transport includes \_\_\_\_\_ and \_\_\_\_\_.

Active transport uses energy in the form of \_\_\_\_\_.

Cells arise only from preexisting cells in a two events \_\_\_\_\_ and \_\_\_\_\_.  
The time between these events is known as \_\_\_\_\_.  
\_\_\_\_\_ carries the genetic master blueprint for protein synthesis

**TISSUES**

1. Tissue is composed of groups of \_\_\_\_\_ with the same or similar function.