

### Anatomy and Physiology

**Anatomy** study of the structure and shape of the body and its parts and their relationships to one another

**Physiology** study of how the body and its parts work or function

**Relationship of Anatomy and Physiology** structure determines what functions can take place

### Levels of Structural Organization

**Chemical Level** Atoms combine to form molecules.

**Cellular Level** Cells are made up of molecules.

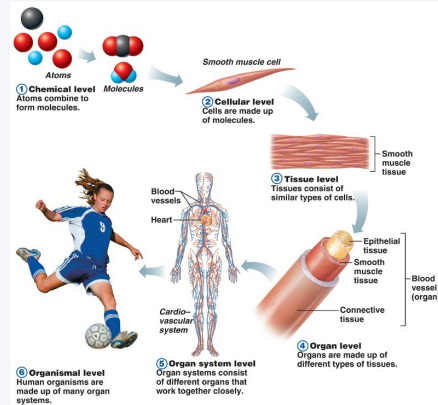
**Tissue Level** Tissues consist of similar type of cells.

**Organ Level** Organs are made up of different types of tissues.

**Organ System Level** Organ systems consist of different organs that work together closely.

**Organismal Level** Human organisms are made up of many organ systems.

### Levels of Structural Organization



### Organ System Overview

**Integumentary System** external covering of the body  
skin, hair, fingernails



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Page 1 of 1.

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