# Med School 101: The Body Systems Name: Period:

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| **The Process:** | **Due Dates:** |
| 1. Know and memorize the **names and functions** of all 11 **body systems**. 2. Know and memorize the **names & function** of all of the **organs** for each of the 11 body systems. 3. Identify at least one **relationship** to another body system. How do they **work together**? 4. Identify any specific **diseases** that affect each body systems | Benchmark #1: \_\_\_\_\_\_\_\_\_\_\_ BioA-1/17 BioF - 1/18   * 3 body systems competed – 20pts   Benchmark #2: \_\_\_\_\_\_\_\_\_\_\_   * 6 body systems nearly complete – 30pts   Benchmark #3: \_\_\_\_\_\_\_\_\_\_\_   * Submit final drafts of all body systems – 50pts   Exam: \_\_\_\_\_\_\_\_\_   * 100pts |

The Products:

1. **Note Taking System/Research System** - 100 points.
   * You must devise a way to record, process, and learn all 11 body systems, all supporting organ structures, and functions of all organs.
   * We will brainstorm some ideas in class, but here are two ideas:

1) A human body “flipbook”, each page is a separate body system that overlaps each other and includes the required pieces listed above.

2) Create Notecards or flash cards with visuals

3) Create a card or board game based on the 11 body systems and the supporting organs.

1. **Body System Exam -** 100 points.

* You will take an exam to test your knowledge of the human body. The test will be fill-in the blank, matching, and labeling a diagram of the human body.

**The Structures/Organs of the Human Body.**

**\*1) Circulatory System:** Heart, Myocardium, Atrium(s), Ventricle(s), Pulmonary vs. Systemic Circulation, Valves, Aorta, Arteries, Veins, Capillaries, Red Blood Cells, Hemoglobin, White Blood Cells, Platelets, Lymph, Spleen.

* INCLUDE A DRAWING OF: Artery Vs Vein

**\*2) Respiratory System:** Pharynx, Trachea, Larynx, Lungs, Bronchi, Alveoli, Gas Exchange, Diaphram

**\*3) Digestive/Excretory System:** Mouth, Saliva, Esophagus, Peristalsis, Chyme, Stomach, Small Intestine, Pancreas, Liver, Villi, Large Intestine, Kidneys, Ureter, Urinary Bladder, Nephrons, Filtration, Reabsorption, Urethra, Rectum.

* INCLUDE A DRAWING OF: Nephron

**\*4) Endocrine System:** Hormones, Target Cells, Exocrine Glands, Endocrine Glands, Hypothalamus, Pituitary, Parathyroid glands, Thymus, Adrenal, Pineal, Thyroid, Pancreas, Ovary, Testis.

**\*5) Nervous System:** Brain, Spinal Cord, Central Nervous System, Peripheral Nervous System, Neurons.

* INCLUDE A DRAWING OF: Neuron with labels

**\*6) Skeletal System:** Periosteum, Haversian Canal, Bone Marrow, Cartilage, Ossification, Joints, Ligaments, 5 Common Bones.

**\*\*7) Muscular System:** Skeletal Muscles, Smooth Muscles, Cardiac Muscles, Myosin, Actin, Tendons.

**\*\*8) Reproductive System:** Scrotum, Seminiferous Tubules, Epididymis, Vas Deferens, Urethra, Penis, Follicles, Ovulation, Fallopian Tubes, Uterus, Vagina, Menstrual Cycle.

**\*\*9) Integumentary System:** Epidermis, Keratin, Melanin, Dermis.

* INCLUDE A DRAWING OF: The layers of the skin

**\*\*10) Immune/Lymphatic System:** Humoral Immunity, Acquired Immunity, Antibodies, Cell-Mediated Immunity, White Blood Cells, Thymus, Spleen, Lymph Nodes, Lymph Vessels.

\*Required systems to research to earn a B. (1-6)

\*\* Required systems to research to earn an A. (1-10)