Introduction to Human Physiology	
Key Terms	Anatomical Planes & Directional Terms
Anatomy is the science of body structures and the relationships among structures.	Descriptions of any region of the body assume the body is in the anatomical position, in which the subject stands erect facing the observer, with the head level and the eyes facing directly forward. The feet are flat on the floor and directed forward, and the arms are at the sides, with the palms turned
Physiology is the science of body functions.	
The human body consists of six levels of structural organization: chemical, cellular, tissue, organ, system, and organismal levels.	forward. A body lying face down is prone , whereas a body lying face
Cells are the basic structural and functional living units of an organism and the smallest living units in the human body.	Coronal Plane- separates the body into front and back halves. Sagittal Plane- separates the body into left and right halves.
Tissues are groups of cells and the materials surrounding them that work together to perform a particular function.	Transverse Plane- separates the body into superior and inferior halves.
Organs are composed of two or more different types of tissues; they have specific functions and usually have recognizable shapes.	Coronal
Systems consist of related organs that have a common function.	Sagittal Transverse
An organism is any living individual.	
Homeostasis is a condition of equilibrium in the body's internal environment produced by the interplay of all the body's regulatory processes.	68
Body fluids are dilute, watery solutions. Intracellular fluid	3D SCIENCE.com
is inside cells, and extracellular fluid is outside cells. Interstitial fluid is the ECF that fills spaces between tissue cells, whereas plasma is the ECF within blood vessels.	Spaces in the body that help protect, separate, and support internal organs are called body cavities . The dorsal and ventral cavities are the two principal body
The components of a feedback system are (1) receptors that monitor changes in a controlled condition and send input to (2) a control center that sets the value at which a controlled condition should be maintained, evaluates the input it receives from receptors, and generates output commands when they are needed, and (3) effectors that receive output from the control center and produce a response (effect) that	cavities. The dorsal cavity is subdivided into the cranial cavity, which contains the brain, and the vertebral canal, which contains the spinal cord. The meninges are protective tissues that line the dorsal cavity.
alters the controlled condition.	The ventral body cavity is subdivided by the diaphragm into a superior thoracic cavity and an inferior abdominopelvic
If a response reverses the original stimulus, the system is operating by negative feedback .	cavity. The viscera are organs within the ventral body cavity.
If a response enhances the original stimulus, the system is operating by positive feedback .	The thoracic cavity is subdivided into three smaller cavities: a pericardial cavity , which contains the heart, and two pleural cavities , which contain the lungs.
Body Systems	The central portion of the thoracic cavity is the mediastinum . It contains all thoracic viscera except the lungs.
There are eleven systems of the human organism:	
The integumentary system The skeletal system The muscular system	The abdominopelvic cavity is divided into a superior abdominal & an inferior pelvic cavity.
The nervous system The endocrine system The cardiovascular system The lymphatic and immune system	Viscera of the abdominal cavity include the stomach, spleen, liver, gallbladder, pancreas, small intestine, and most of the large intestine. Viscera of the pelvic cavity include the urinary bladder,
The respiratory system The digestive system	portions of the large intestine, and internal organs of the reproductive system.
The uninemy evetem	reproductive system.

How to Use This Cheat Sheet: These are the keys related this topic. Try to read through it carefully twice then recite it out on a blank sheet of paper. Review it again before the exams.