

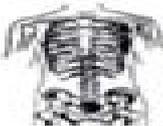
Human Body SYSTEMS Study Guide

Muscular System:



- Main body part and organ of Muscular System: all Muscles
- Three types of muscles: Smooth (stomach, lungs, blood vessels), Skeletal (biceps, triceps), Cardiac (heart)
- The nervous system detects stimuli and sends messages to the muscular system and this creates movement.
- Works directly with the skeletal system—often called musculoskeletal system

Skeletal System:



- Main body parts and organs of Skeletal System: Bones
- Three functions of the skeleton: Protects organs, movement, supports muscles
- Works directly with the muscular system—often called musculoskeletal system

Circulatory System:



- Main body parts and organs of Circulatory System: heart, blood vessels (capillaries, veins, arteries)
- Main job of the circulatory system is to circulate blood throughout the body.
 - Blood Vessels use the muscular system to circulate the blood around the body.
- Exchange of oxygen and carbon dioxide between air and blood occurs in lungs (in the air sacs called the alveoli)
 - These nutrients, wastes, and oxygen are exchanged between blood and cells in the CAPILLARIES attached to the air sacs (Alveoli)
- The circulatory system passes nutrients, gases, hormones, and blood cells to and from cells in the body. This helps our body fight diseases (white blood cells attack germs). In addition, this helps us maintain body temperature.
 - In humans, most gas exchange occurs between the circulatory system and the respiratory system.
- The three types of Blood Vessels are: Veins (move towards the heart and are oxygen poor), Arteries (pump blood away from the heart and oxygen rich-“Arteries away”), and Capillaries (tiny blood vessels that bring oxygen rich blood & nutrients and remove waste from tiny tissues in our body)
- Heart has four chambers and pumps blood directly into the arteries (and therefore out of the heart) “Arteries away”

Respiratory System:



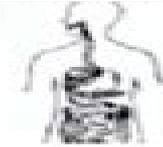
- Main body parts and organs of Respiratory System: Nose, Trachea, Lungs
- When you are exercising your breathing rate and your heart rate will rise. It will go back down after you finish exercising.
- Exchange of oxygen and carbon dioxide between air and blood occurs in lungs (in the air sacs called the alveoli)
 - Respiratory system works with the circulatory system to bring oxygen into the blood. This occurs in the lungs
- In humans, most gas exchange occurs between the circulatory system and the respiratory system.

Nervous System:



- Main body parts and organs of Nervous System: Brain, spinal cord, nerve cells (neurons)
- The nervous system controls all the other systems in the body
- The nervous system detects stimuli and sends messages to the muscular system and this creates movement.
- Messages are sent from the brain (Central Nervous System) through neurons and delivered all throughout our body (using the Peripheral Nervous system)

Digestive/Excretory System:



- Main body parts and organs of Digestive System: Mouth, Esophagus, Stomach, Intestines
- Food is broken up in two ways: Mechanical Digestion (physical breaking apart of food) and Chemical Digestion (enzymes in your stomach, liver, and pancreas break down the food)
 - After the food is broken down it moves into the small intestine
 - The small intestine is where most of the nutrients from food are absorbed.
 - Cells on the surface of the small intestine absorb the nutrients our body needs.
 - Then the rest of the digested food is eliminated out of the large intestine or colon as waste.
- Nutrients that that our body needs are absorbed into our cells from our small intestines.

Human Body Systems Study Guide 5th Grade

Mcdougal Littell



Human Body Systems Study Guide 5th Grade:

Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them *Resources for Teaching Middle School Science* developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of *Resources for Teaching Elementary School Science* the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind *Resources for Teaching Middle School Science* will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents Science Indiana Standards Manager Grade 6 McDougal Littell, 2004 *Resources in Education*, 1988

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