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the following sections provide a basic framework for the understanding of gross human muscular anatomy with descriptions of the large muscle groups and their actions the various muscle groups work in a coordinated fashion to control the movements of the human body overview muscle fibers can broadly be divided into 3 muscles types skeletal cardiac and smooth muscle this summary discusses the basic anatomy of skeletal muscle key features of skeletal the primary job of muscles is to move the bones of the skeleton but muscles also enable the heart to beat and constitute the walls of other vital hollow organs there are three types of muscle last updated january 15 2021 definition the muscular system is a set of tissues in the body with the ability to change shape muscle cells connect together and eventually to elements of the skeletal system when the muscle cells contract force is created as the muscles pull against the skeleton 1 mobility the muscular system s main function is to allow movement when muscles contract they contribute to gross

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movement gross movement refers to large coordinated the musculoskeletal system locomotor system is a human body system that provides our body with movement stability shape and support it is subdivided into two broad systems muscular system which includes all types of muscles in the body skeletal muscles in particular are the ones that act on the body joints to produce movements summary humans muscular system consists of hundreds of muscles that carry out many different functions it is made up of skeletal muscles which are voluntary muscles that we can control and smooth muscles which are involuntary muscles that we cannot control the muscular system is responsible for the movement of the human body attached to the bones of the skeletal system are about 700 named muscles that make up roughly half of a person s body weight each of these muscles is a discrete organ constructed of skeletal muscle tissue blood vessels tendons and nerves key points the muscular system is responsible for functions such as maintenance of posture locomotion and control of various circulatory systems muscle tissue can be divided functionally voluntarily or involuntarily controlled and morphologically striated or non striated clinical significance muscular dystrophy see also references further reading external links muscular system the subtracting radicals kuta answers

system is an organ system consisting of skeletal smooth and cardiac muscle it permits movement of the body maintains posture and circulates blood throughout the body 1 overview structure of muscle tissue skeletal muscle sarcomere connective tissues of muscle gross anatomy visceral striated muscle cardiac muscle pacemaker cells and innervation smooth muscle smooth muscle like cells clinical correlations dermatomyositis and polymyositis muscular dystrophy muscle atrophy sleep twitches sources this chapter explains the general principles p 318 of the muscular system and describes in detail the head muscles p 324 trunk muscles p 338 upper limb muscles p 345 and lower limb muscles p 358 10 2 skeletal muscle anatomy physiology learning objectives describe the structure and function of skeletal muscle fibers by the end of this section you will be able to describe the connective tissue layers surrounding skeletal muscle define a muscle fiber myofibril and sarcomere the muscular system is the biological system of humans that produces movement the muscular system in vertebrates is controlled through the nervous system although some muscles like cardiac muscle can be completely autonomous muscle is contractile tissue and is derived from the mesodermal layer of embryonic germ cells its function is to contract 14 2 gross anatomy of skeletal

muscles the connective tissues play a significant role in arranging the muscle fibers into a hierarchical structure that forms a complete muscle consider a muscle like the bicep brachii commonly called the bicep seeley stephens and tate anatomy and physiology 6th ed chapter 10 muscular system gross anatomy page 3 of 11 created by martin e hicks community college of southern nevada e origin and insertion terms 1 may simply be the names of the bones a a typical myofiber is 2 3 centimeters 3 4 1 1 5 in long and 0 05 millimeters 1 500 inch in diameter and is composed of narrower structures myofibrils these contain thick and thin myofilaments made up mainly of the proteins actin and myosin numerous capillaries keep the muscle supplied with the oxygen and glucose needed to fuel the muscular system is composed of specialized cells called muscle fibers their predominant function is contractibility muscles attached to bones or internal organs and blood vessels are responsible for movement nearly all movement in the body is the result of muscle contraction circulation respiration digestion urination childbirth vision stability posture takeaway what are the main functions of the muscular system muscles play a part in every function of gross anatomy of skeletal muscles head and neck muscles facial muscles chewing muscles neck muscles trunk muscles ~~adding~~ ~~subtracting~~

the upper limb muscles of the lower limb
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muscle activity nerve stimulus and the action
potential mechanism of muscle contraction the
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summary humans muscular system consists of hundreds of muscles that carry out many different functions it is made up of skeletal muscles which are voluntary muscles that we can control and smooth muscles which are involuntary muscles that we cannot control

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the muscular system is responsible for the movement of the human body attached to the bones of the skeletal system are about 700 named muscles that make up roughly half of a person's body weight each of these muscles is a discrete organ constructed of skeletal muscle tissue blood vessels tendons and nerves

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this chapter explains the general principles p 318 of the muscular system and describes in detail the head muscles p 324 trunk muscles p 338 upper limb muscles p 345 and lower limb muscles p 358

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10 2 skeletal muscle anatomy physiology
learning objectives describe the structure and
function of skeletal muscle fibers by the end
of this section you will be able to describe
the connective tissue layers surrounding
skeletal muscle define a muscle fiber
myofibril and sarcomere

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the muscular system is the biological system
of humans that produces movement the muscular
system in vertebrates is controlled through
the nervous system although some muscles like
cardiac muscle can be completely autonomous
muscle is contractile tissue and is derived
from the mesodermal layer of embryonic germ
cells its function is to

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the muscular system is composed of specialized cells called muscle fibers their predominant function is contractibility muscles attached to bones or internal organs and blood vessels are responsible for movement nearly all movement in the body is the result of muscle contraction

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neck muscles facial muscles chewing muscles
neck muscles trunk muscles muscles of the
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