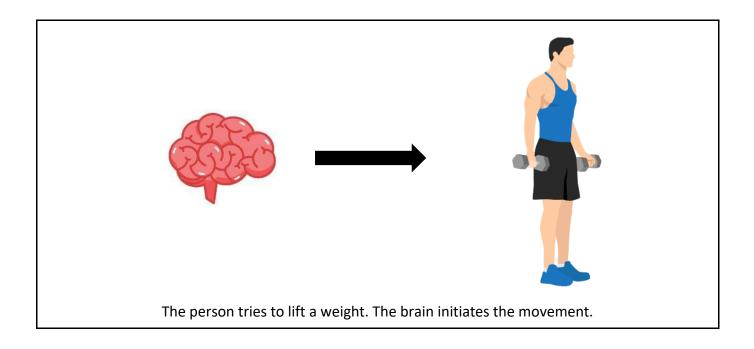
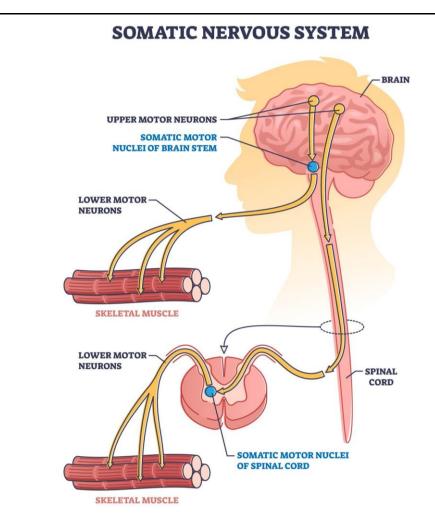
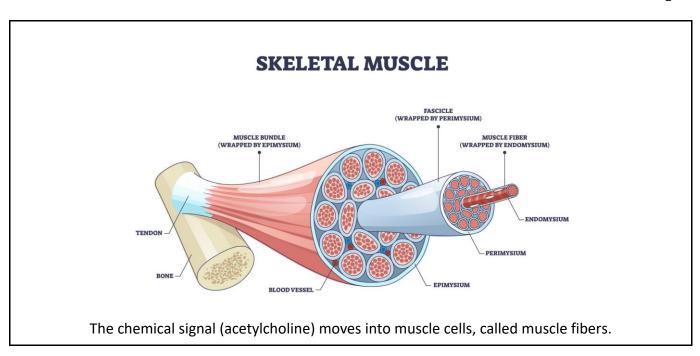
## WEIGHT LIFTING SEQUENCE CARDS EXPLORE 1 LESSON 26

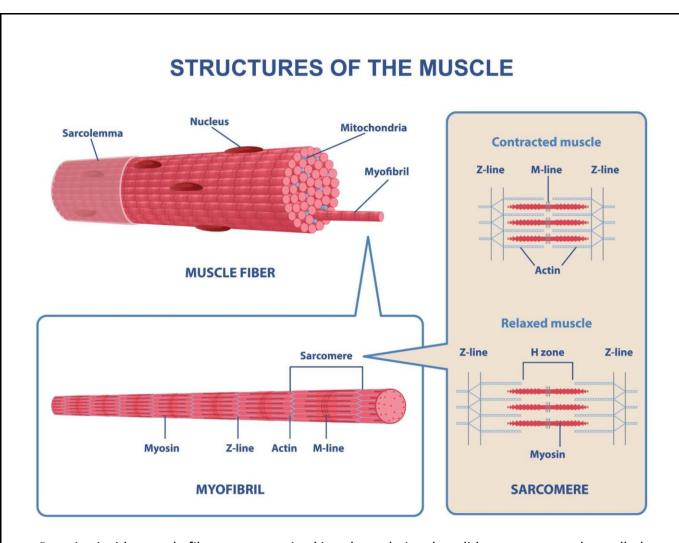




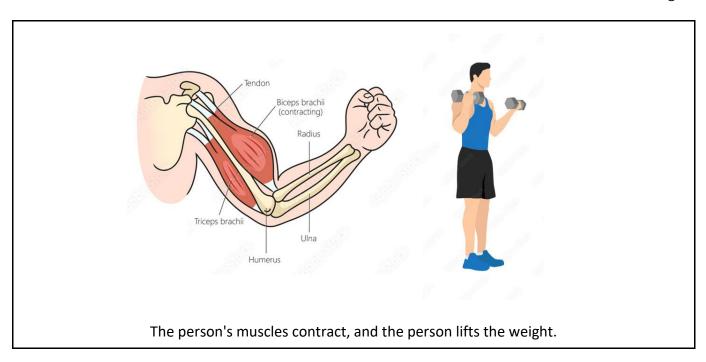


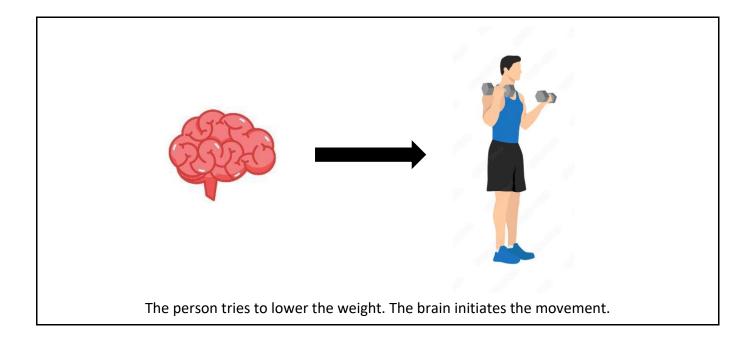
The somatic nervous system sends a nerve signal from the brain to the motor neuron. At the motor neuron, a chemical signal (acetylcholine) is sent to the muscle.

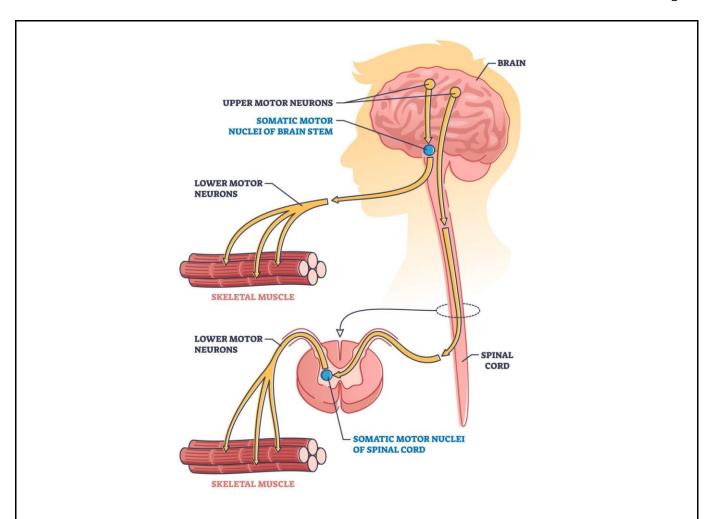




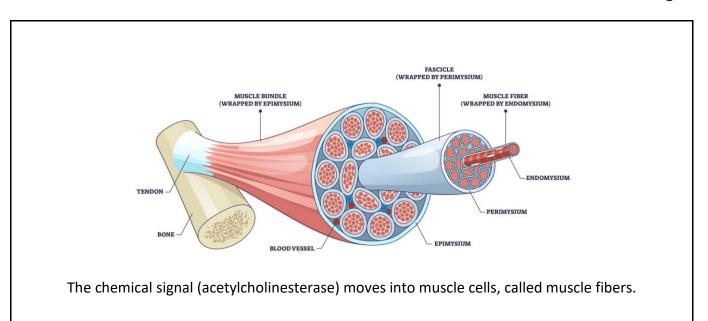
Proteins inside muscle fibers are organized into long chains that slide past one another called sarcomeres. Acetylcholine triggers the proteins in the sarcomere to slide towards one another to contract the muscle fibers.





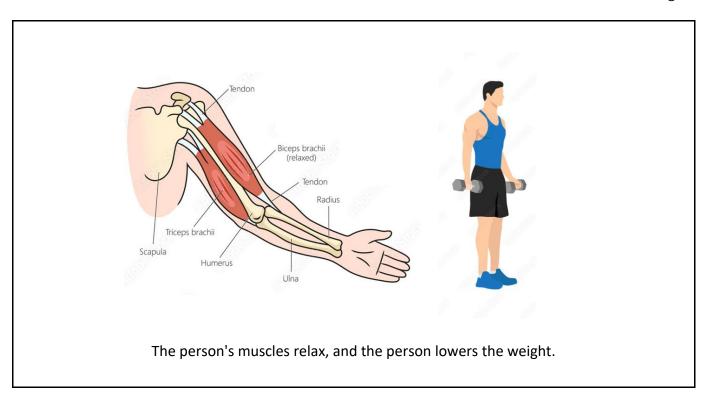


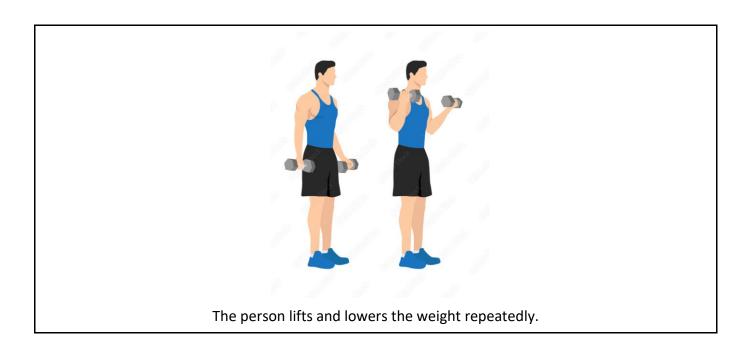
The somatic nervous system sends a nerve signal from the brain to the motor neuron. At the motor neuron, a chemical signal (acetylcholinesterase) is sent to the muscle.

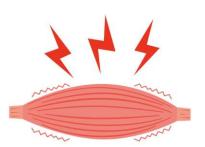


## STRUCTURES OF THE MUSCLE **Nucleus** Mitochondria Sarcolemma **Contracted muscle** Myofibril **Z-line** M-line **Z-line MUSCLE FIBER Relaxed muscle** Z-line **Z-line** H zone Sarcomere Myosin **Z-line** Actin M-line Myosin **MYOFIBRIL SARCOMERE**

Proteins inside muscle fibers are organized into long chains that slide past one another called sarcomeres. The acetylcholinesterase breaks down acetylcholine, and the proteins in the sarcomere slide apart from one another to relax the muscle fibers.







The person experiences muscle soreness 24-48 hours later.