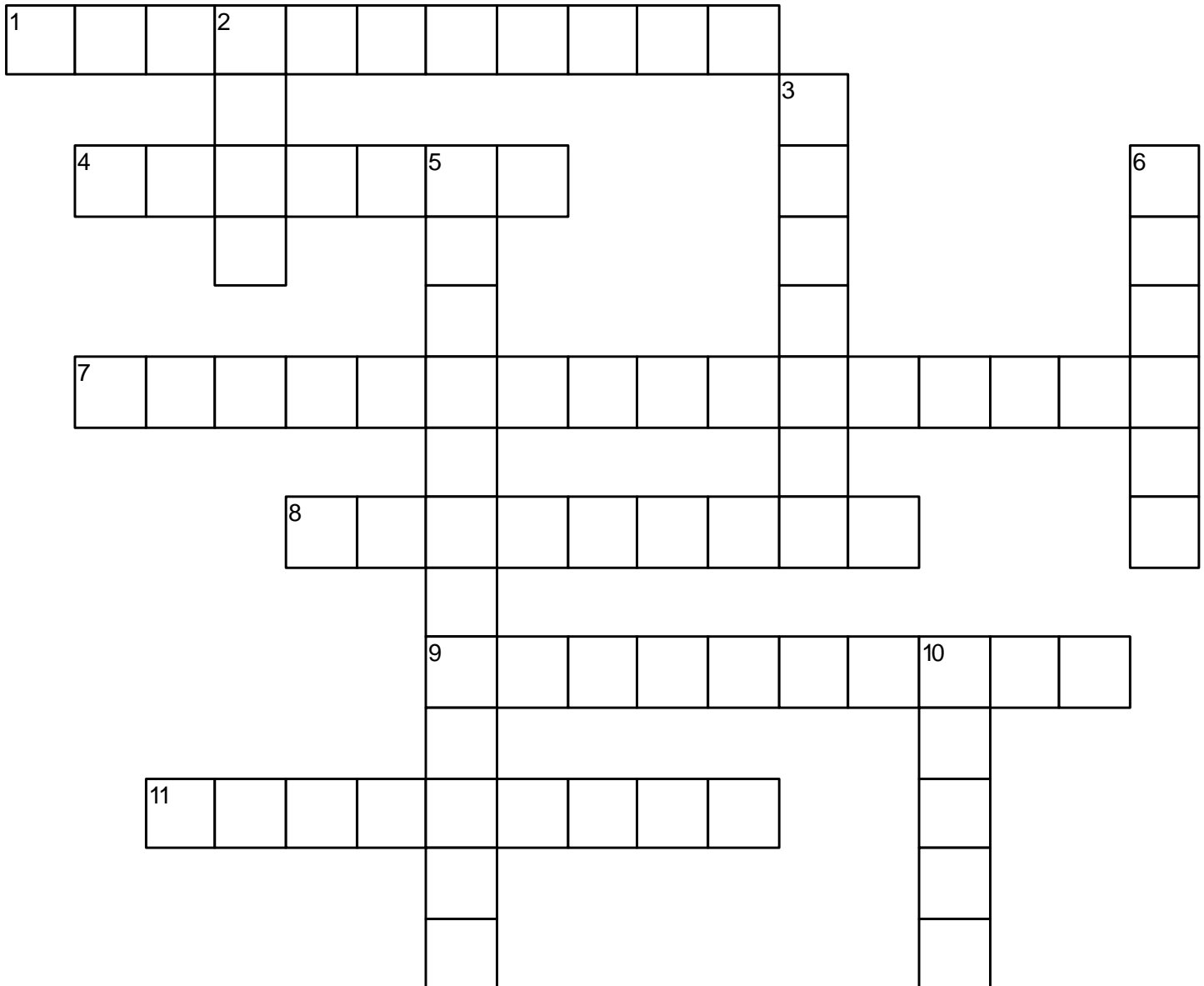


Apologia Advanced Biology

The Human Body: Fearfully and Wonderfully Made!

Module 5: Muscle Histology and Physiology

Vocabulary from Module 5 of Apologia Educational Ministries' The Human Body: Fearfully and Wonderfully Made! by Dr. Jay Wile and Marilyn M. Shannon, M.A.



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Clues for “Muscle Histology and Physiology”

The Human Body: Fearfully and Wonderfully Made! – Module 5

ACROSS

- 1 The fact that an individual muscle fiber contracts with equal force in response to each action potential is called the all-or-none law of skeletal muscle _____.
- 4 The interface between a nerve cell and another cell
- 7 A chemical released by a neuron. This chemical travels across the synaptic cleft, allowing the neuron to communicate with another cell.
- 8 A _____ stimulus is a stimulus strong enough to create one action potential in a neuron.
- 9 Stimuli of increasing strength that create more action potentials along more neurons are called _____ stimuli.
- 11 The repeating unit of myofibril

DOWN

- 2 The state of partial contraction in a muscle, even when the muscle is not being used is called muscle _____.
- 3 A stimulus which is strong enough to create action potentials in all the motor neurons innervating a whole muscle is a _____ stimulus.
- 5 A _____ stimulus is a stimulus too small to create an action potential in a neuron.
- 6 The functional unit of the nervous system, a nerve cell
- 10 A _____ unit is one motor neuron and all the muscle fibers it innervates.

Solutions to “Muscle Histology and Physiology”
 The Human Body: Fearfully and Wonderfully Made! – Module 5

