



TEACHER GUIDE

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Reading Comprehension
1. Cells – The Building Blocks of Life
2. Cell Structures & Functions
3. Cells, Tissues, Organs & Systems
4. What Are Organs & Organ Systems?
5. The Skeletal System – Bones
6. The Skeletal System – Joints & Cartilage
7. The Muscular System – Muscles
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NAME:

The Muscular System - Movement

🔰 Before You Read

1. Use your dictionary to look up the meaning of the words below. Write the definition in the space beside each word.

voluntary	
tendon	
involuntary	
strain	
esophagus	

2. The body can do each of the things listed below. Decide if each is voluntary or involuntary. Here's a hint if you get stuck - ask yourself if you can choose to do this thing or if your body does it without you deciding. Write your answers in the chart.

biting an apple kicking a bal blood moving in your veins walking to the bus	your heart beating e bumps at a scary movie digesting an apple
Voluntary	Involuntary
0	
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W Reading Passage NAME:

The Muscular System - Movement

e have read that both muscles and bones are both needed for movement. To work together to create movement, muscles and bones have to be connected. Most muscles are attached to bone by strong cords called **tendons**. Tendons look like rubber bands. Besides connecting bone and muscle, one other important job of tendons is to protect muscle from strain during movement.

Can you find any tendons in your body? Try this: Touch the top of your hand as you wiggle your fingers. The hard ridges you feel that run from your fingers to your wrist are tendons.

There are two ways that muscles can move.

Involuntary Muscle Movement



One kind is **involuntary movement**. **Smooth** muscles and **cardiac** muscles both move involuntarily. This means they move on their own; we cannot decide to *make* them move. Our brain sends messages to these muscles "telling" them when they need to move. This happens without us even knowing our muscles are working. An example of involuntary movement is in our digestive system. When we swallow food, the food is pushed down into our stomach by rings of smooth muscles in our **esophagus**. Our stomach is lined with smooth muscle, too. This muscle moves around food we have eaten, breaking it up into small bits so we can get the nutrients from it.

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What are TWO kinds of muscle that move INVOLUNTARILY?

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NAME: After You Read 🌪 The Muscular System - Movement $\{3. Why do you think it is important that the heart is an involuntary muscle?$ 4. Why do you think it is important that the muscles in our least are voluntary muscles? 5. How do the muscles in your arm work together to a reate movement?



Extension & Application

6. Using the Internet, research **ten** different **world records** of human movement. Some examples include:

fastest 100 meters fastest marathon highest pole vault highest high jump fastest 100 meter speed skate fastest 500 meter breast stroke (swimming)

For each world record, write down whether it is a record for men or women, and list the country that the winner is from.

Record your findings in a chart like the one below.

World Record	Name of Winner	Male or Female?	Country

Most of these world records will be for voluntary muscle movement. Can you find any that are for **involuntary movement?**

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NAME:	
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NAME:		Ser You Read 🜪		*
The Muscu 3. Why do you think it is impo	lar System ortant that the heart is c	- Mover	nent	
4. Why do you think it is impo	ortant that the muscles i	n our legs are volur	ntary muscles?	3. Possible answer: Impossible to remember to make our heart beat all the time
5. How do the muscles in you	ur arm work together to	create movement?	?	4. Answers will vary
Extension & Applicati 6. Using the Internet, researc	on ch ten different world rec	cords of human mo	vement.	5. Work in pairs, one muscle contracts while the other shortens
Some examples include: fastest 100 meters highest high jump fastest 500 meter breas	fastest marathon fastest 100 meter speed st stroke (swimming)	highest skate	pole vault	6. Accept any verifiable answers
For each world record, write the country that the winner i Record your findings in a cha world record	down whether it is a rec s from. art like the one below. Ne of Winner () Maie o	cord for men or wor	men, and list	
				Answers will vary
Most of these world records that are for involuntary move	will be for voluntary mus	cle movement. Cc	an you find any	13

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a) skull

f) ribs

