



Muscles are tissues!

Our bodies are made up of different types of cells



smooth muscle cell



bone cell

nerve cell

Cells form to make tissue

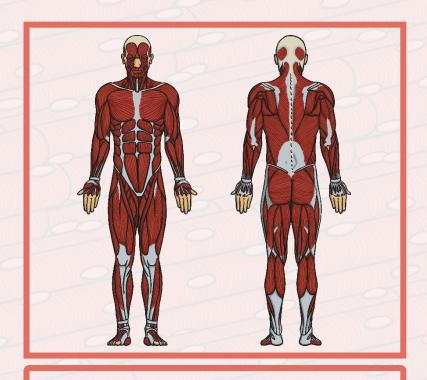


Skeletal
muscles are
made up of just
muscle tissue



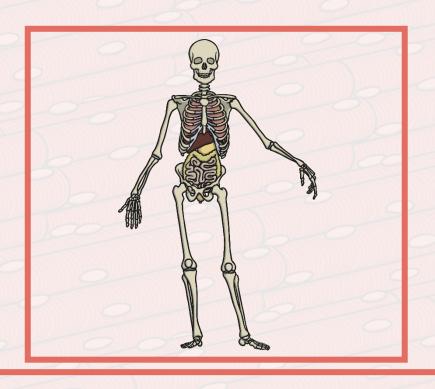
Organs are made up of more than one type of tissue





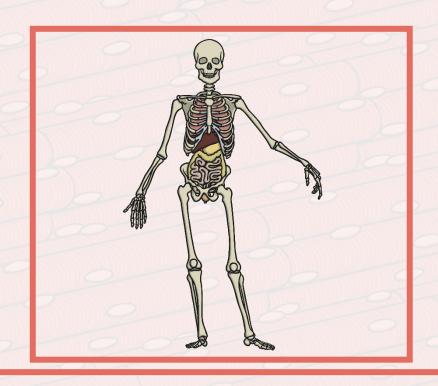
Skeletal muscles are attached to bones and enable movement.

Mighty Muscles



Some organs have muscle tissue. Which organs have muscles? Discuss with a partner (Hint: Think which organs move things around the body).

Mighty Muscles - ANSWER



Your heart, digestive system and blood vessels all have muscle tissue.

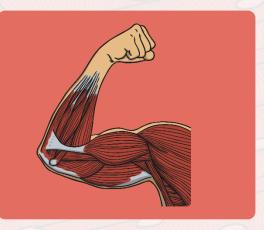
They use this muscle tissue to pump blood around the body and food through the intestines.

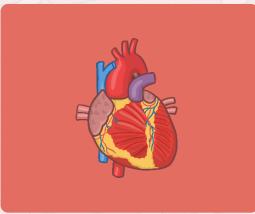
Voluntary and Involuntary

Some muscle movement is voluntary and we can control it. Other muscle movement is involuntary and we don't have control over it.

Look at the pictures to the right: Which shows voluntary muscle movement and which shows involuntary?

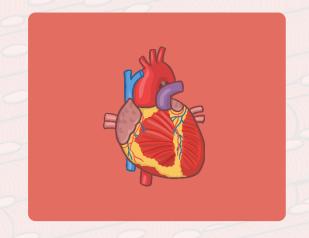
Discuss with your partner and explain why you made your choice.





Voluntary and Involuntary ANSWERS





Moving your arm is a <u>voluntary</u> muscle movement because you can decide when and how to bend and extend your arm.

Your heart beating is an involuntary muscle movement because the muscles within your heart are constantly contracting and relaxing in order to pump blood around the body, without you having to do anything.