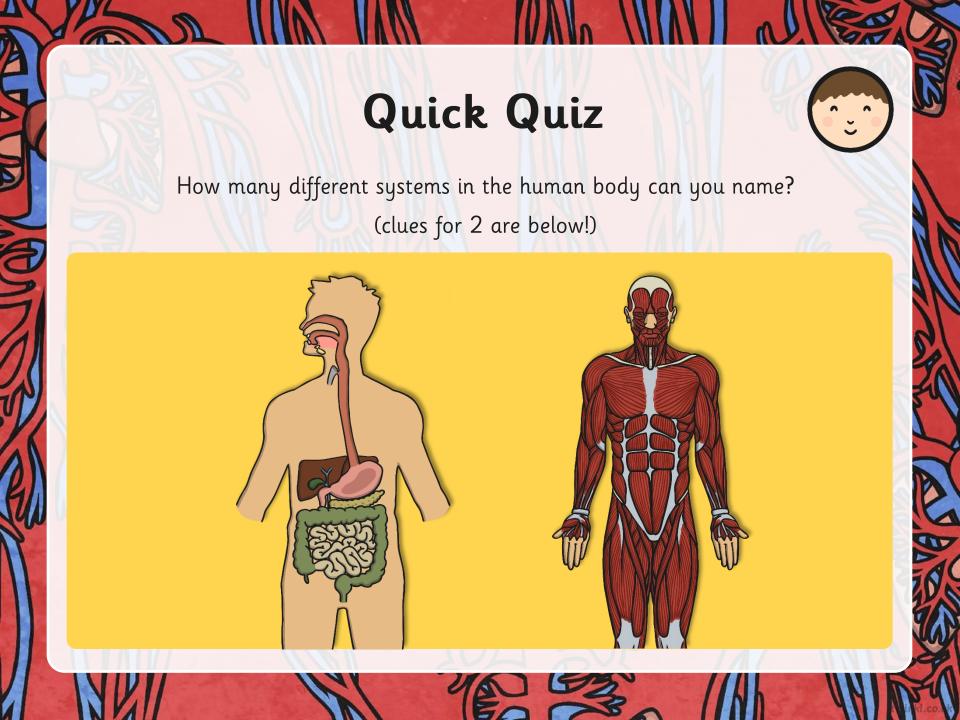


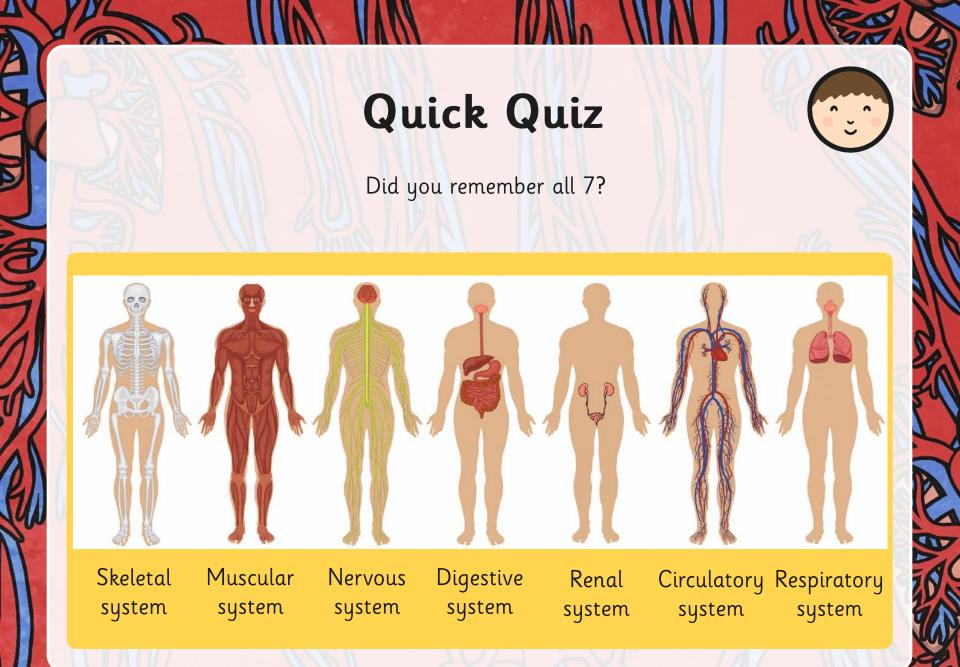


- To explore how the respiratory system is linked to the circulatory system.
- To explore how our lungs work.

Success Criteria

- I can identify the main parts of the respiratory system.
- I can identify the roles different parts play in the respiratory system.
- I can explain the link between the respiratory and circulatory system.





The Respiratory System



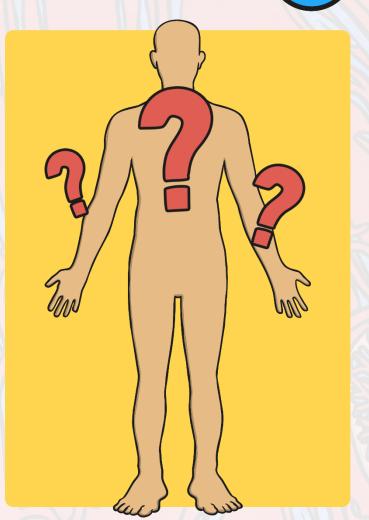
Today we are going to explore the respiratory system.

What do you think is the purpose of the respiratory system?

Have a think:

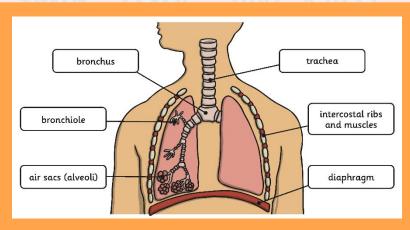
What do you think the system does?

Do you know the names of any parts of the system?



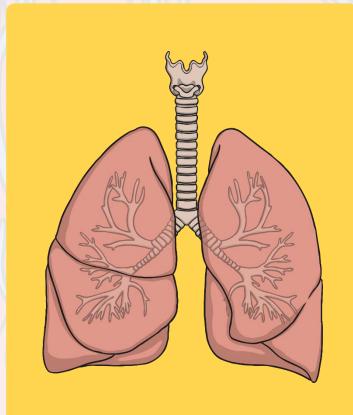
Parts of the Respiratory System

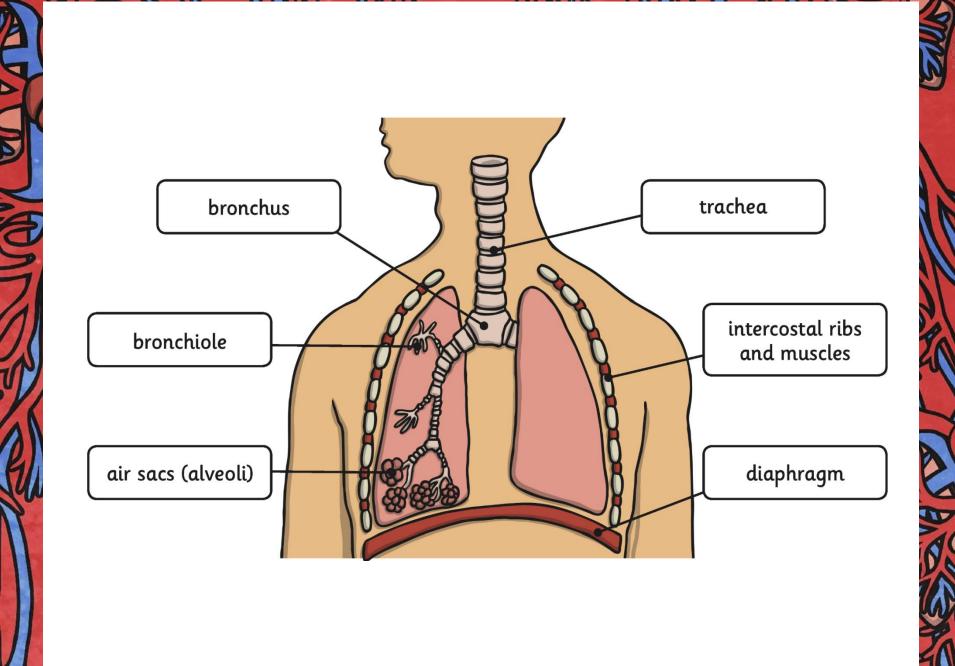
We saw this yesterday but let's take some more time to understand it.

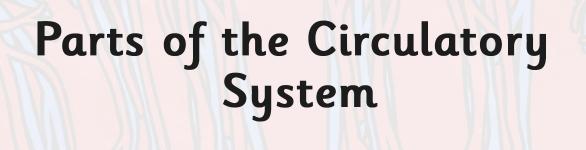


See the next slide for a larger version of this diagram

Air breathed in through the mouth or nose travels down the trachea, through the bronchi into one of the lungs. The air travels into the bronchioles and into the air sacs (alveoli). From here, the gas is able to pass in to the bloodstream.









Complete page 4 in your booklet about the respiratory system and then continue.

You may also want to look at: https://www.ducksters.com/science/breathing.php

Mighty Muscles





What are Muscles?

There are three types of muscle:

Our bodies are made up of different types of cells





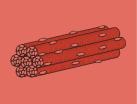


smooth muscle cell

bone cell

nerve cell

Cells form to make tissue



Skeletal muscles are made up of just muscle tissue





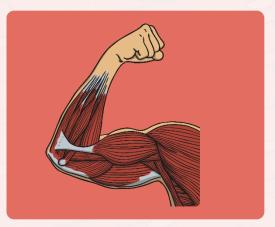
Organs are made up of more than one type of tissue

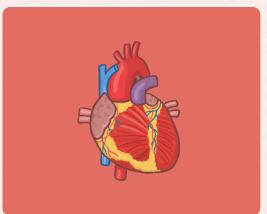
Voluntary and Involuntary

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?

Can you think of any other involuntary or involuntary movements?





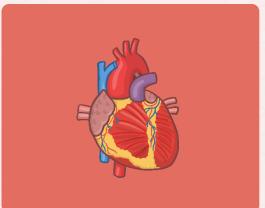
Voluntary and Involuntary

Watch the following video and see what facts you can gather about the muscles of the human body.

https://www.youtube.com/watch?v=UGSi_ HwgX0k

Use this information to help you complete the work on page 5 of your booklet.





What's the difference between a muscle, ligament and tendon?

Match the name to the description:

muscle ligament tendon

A short band of tough, flexible fibrous connective tissue which connects two bones or cartilages or holds together a joint (such as the knee).

A flexible but inelastic cord of strong fibrous collagen tissue attaching a muscle to a bone.

A band or bundle of fibrous tissue in a human or animal body that has the ability to contract, producing movement in or maintaining the position of parts of the body.

What's the difference between a muscle, ligament and tendon?

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