

Teaching notes

This could be a starter, plenary or revision exercise.

A statement about a type of blood vessel is read out.

Students decide whether the statement refers to arteries, veins or capillaries.

They could work in pairs and write their answer on a mini whiteboard.

For a more active start to the lesson, they could physically move to different parts of the room. Rather than the class moving en masse, you could select a small portion of the class at a time to answer e.g. boy/girls only, people wearing glasses etc.

On www.teachitscience.co.uk there is an interactive Magnet activity which will randomly generate a statement and when double-clicked will reveal the correct answer.

Statements about capillaries

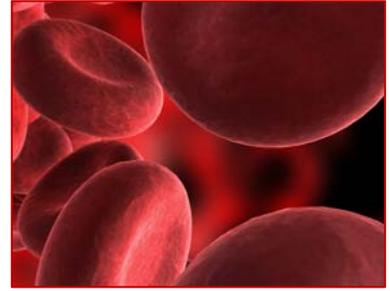
- The vessel wall is one cell thick.
- They have a very small lumen.
- Glucose diffuses into tissues from these vessels.
- Oxygen diffuses from these vessels into surrounding tissues.
- They absorb amino acids and glucose (products of digestion).
- Waste products pass into the blood through vessel walls.
- They form a dense network around alveoli.
- White blood cells can squeeze out of these vessels.
- They form the glomerulus.
- They lie beneath the epithelium of villi.
- These vessels are very numerous in the placenta.



Statements about arteries

- Almost all of these vessels carry oxygenated blood.
- Blood is at high pressure in these vessels.

- They have relatively thick walls.
- Their walls are elastic.
- Their walls are more muscular than other blood vessels.
- They carry blood away from heart.
- They have a pulse.
- They supply oxygen to heart muscle.
- In these vessels, red blood cells are rich in oxyhaemoglobin.
- These vessels carry bright red blood.
- The carotid is ...
- The aorta is ...



Statements about veins

- They carry deoxygenated blood.
- Blood travels through these vessels at low pressure.
- They have a large lumen.
- They will collapse if empty of blood.
- These vessels have relatively thin walls.
- They have valves to prevent back flow of blood.
- They are known as 'varicose' if valves have deteriorated.
- Blood plasma in these vessels contains more carbon dioxide.
- Body movements keep blood flowing through these vessels
- They have connections with lymph vessels.
- Three types are known as superficial, deep and systemic.
- The jugular is ...
- The vena cava is ...

