9. Transport in animals

Starter Quiz ·

IGCSE Biology Name: _____ Score: _____

1. In a double circulation, blood passes through the heart:

   ☐ never

   ☐ once per circuit

   ☐ twice per full circuit of the body

   ☐ three times

2. The upper chambers of the heart that receive blood are the:

   ☐ arteries

   ☐ atria

   ☐ ventricles

   ☐ valves

3. Arteries carry blood:

   ☐ back to the heart

   ☐ only to the lungs

   ☐ away from the heart

   ☐ in both directions

4. Red blood cells carry oxygen using:

   ☐ haemoglobin

   ☐ platelets

   ☐ plasma

   ☐ antibodies

5. The pulmonary circulation carries blood between the heart and the:

   ☐ brain

   ☐ lungs

   ☐ legs

   ☐ liver

6. The right ventricle has a thicker muscular wall than the left.

   ☐ True ☐ False

7. The pulmonary artery carries deoxygenated blood, showing "artery = away from heart", not "artery = oxygen-rich".

   ☐ True ☐ False

8. Red blood cells have a large nucleus to control haemoglobin production.

   ☐ True ☐ False

9. Fish have a double circulation, while mammals have a single circulation.

   ☐ True ☐ False

10. The lower chambers that pump blood out of the heart are the _____.

    _____

9. Transport in animals

Answers ·

IGCSE Biology

1. **twice per full circuit of the body**

   Double circulation means two passes through the heart.

2. **atria**

   Atria receive; ventricles pump.

3. **away from the heart**

   Arteries carry blood away from the heart.

4. **haemoglobin**

   Haemoglobin binds oxygen.

5. **lungs**

   Pulmonary = to the lungs for oxygen.

6. **False**

   False. The left ventricle has the thicker wall, because it pumps blood at high pressure around the whole body; the right only pumps to the lungs.

7. **True**

   Arteries are defined by direction, not oxygen content.

8. **False**

   False. Mature red blood cells have no nucleus, leaving more room for haemoglobin; their biconcave shape also suits oxygen transport.

9. **False**

   False. It is the other way round: fish have a single circulation, while mammals pump blood through the heart twice per circuit (double circulation).

10. **ventricles**

    Ventricles pump; atria receive.