



# Blood



- RED BLOOD CELLS (38-48%)
- PLASMA (52-62%)
- PLATELETS (<1%)
- WHITE BLOOD CELLS (<1%)

- plasma**  
watery liquid that blood cells are suspended in and waste is carried
- red blood cells**  
carry oxygen
- white blood cells**  
defend us and attack threats
- platelets**  
clot blood when wounds occur
- carries nutrients  
carries oxygen  
cleans waste  
protects



- X** arteries only carry deoxygenated blood
- X** blood is **NOT blue**  
Only blue to show difference in blood through diagrams
- ✓** blood is **bright red** (oxygenated) or **dark red** (deoxygenated)

# Circulatory system

- 1 **deoxygenated** blood pumped to lungs
- 2 In lungs - blood disposes of **carbon dioxide** and picks up **oxygen**
- 3 **oxygenated** blood returns to the heart and is pumped around the body

**oxygenated** blood

**arteries**  
(muscular tubes that carry blood away from the heart)

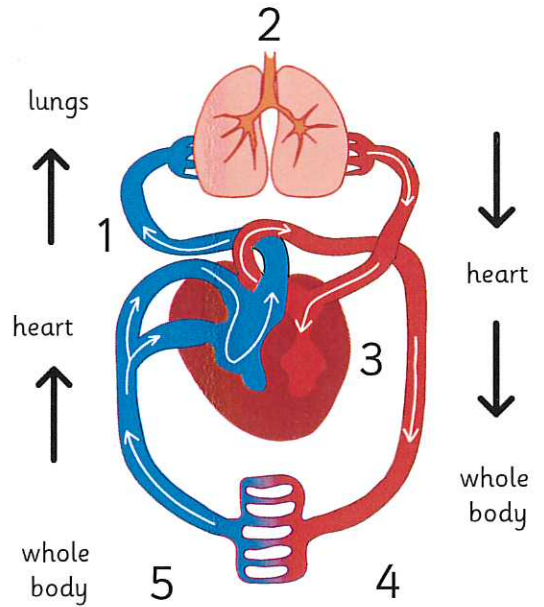
arteries become smaller and blood goes into...

**capillaries**  
fine blood vessels close to body tissue and cells

**blood meets cells**

- blood → oxygen + sugar
- blood ← carbon dioxide + waste

5 **blood returns to heart through veins**  
(less muscular than arteries and closer to the skin)



**oxygen**  
an element (gas) vital for life – red blood cells carry oxygen (**oxygenated**)

**deoxygenated**  
blood that has given oxygen to cells and taken away carbon dioxide waste (scientific diagrams show this blood as **blue**, but we know it is **dark red**)

**carbon dioxide**  
waste gas produced by cells and removed by plasma in the blood

