What is in blood The functions of blood

# THE BLOOD

# Objectives

 Be able to explain the different functions of blood cells in the body

# Blood



### PLASMA Straw coloured liquid which transports

- CO2 from cells to lungs
- Glucose from small intestine to cells
- Waste from cells

# Red Blood Cells

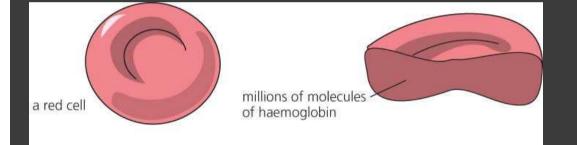


Fig 5.3a

#### No nucleus

- Full of Haemoglobin
- Haemoglobin carries
  O2 in the cell

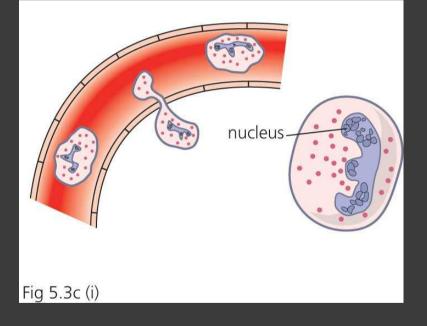
2. The O2 joins with the haemoglobin in the red cells to form **oxyhaemoglobin** 

 Blood is pumped to the lungs to pick up 02 4. In the capillaries, the oxyhaemoglobin breaks down and O2 is set free. It passes out of the body cells – gas exchange occurs

5. The blood is now dull red because it is **deoxygenated**. It is pumped back to the lungs to get more O2

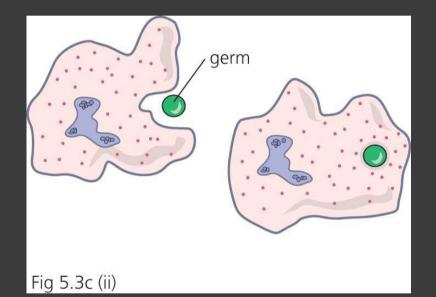
3. The **oxygenated** blood is pumped around the body

# White Blood Cells



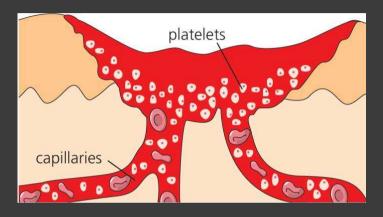
- Has nucleus (all different shapes)
- 1 white blood cell per 600 red cells

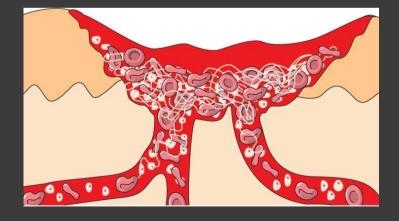
# White Blood Cells



- Some engulf invading microbes to defend the body
- Others make
  Antibodies to attack
  them

## Platelets





- Tiny pieces of cell with no nucleus
- Clump together when a blood vessel is damaged
- This mesh work of fibres produces a clot



# Homework

#### End of unit questions for next Wednesday.