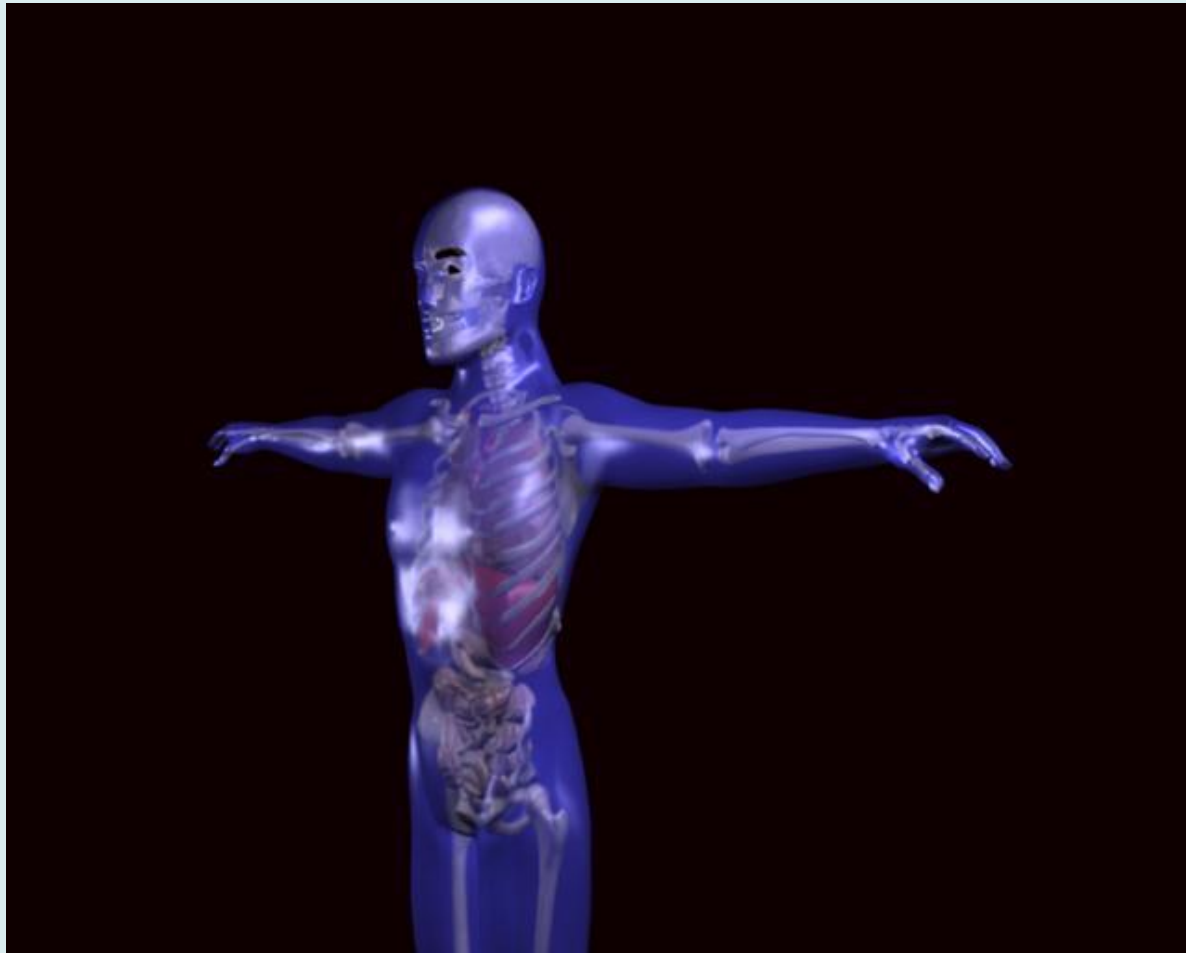
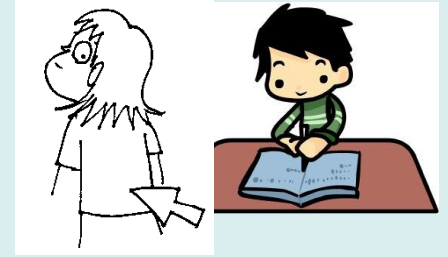


Organ Systems



Lesson 18

Lesson Starter



What is the function of a valve in the heart?

Prevent backflow of blood/make sure blood flows the correct way

How many valves are present in the heart?

4

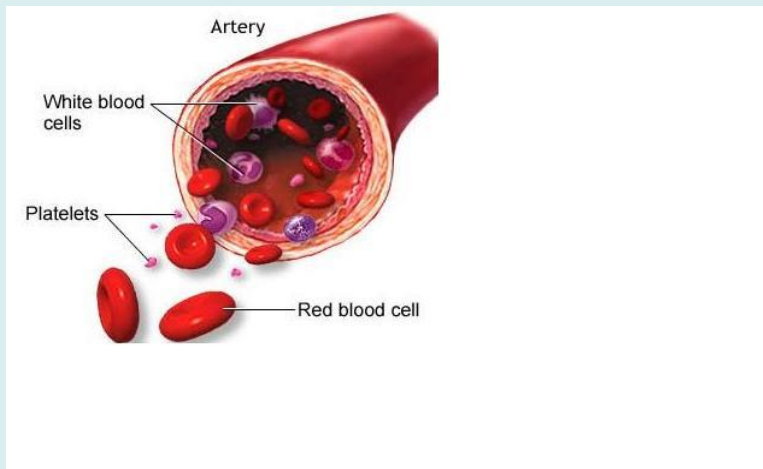
Which blood vessel carries blood away from the heart?

arteries

Learning Intention



- Blood pressure
- Blood



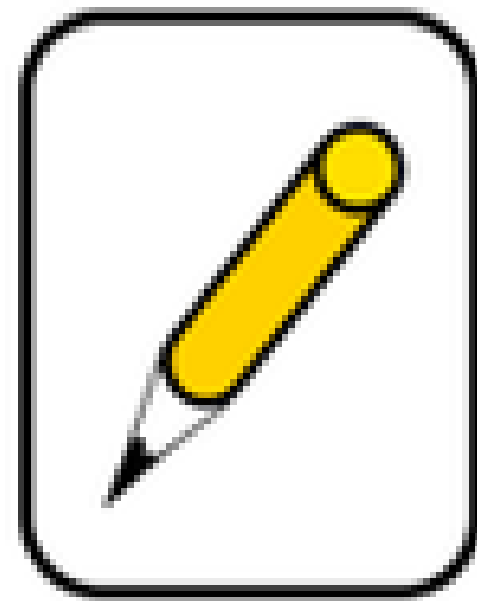
Success Criteria



If this is a successful lesson you should be able to:

- State what blood pressure is.
- Use equipment to measure blood pressure.
- State values that are high/low blood pressure.
- Name the parts of the blood.

Thinking Skills



Applying

Activity 16

Blood Pressure



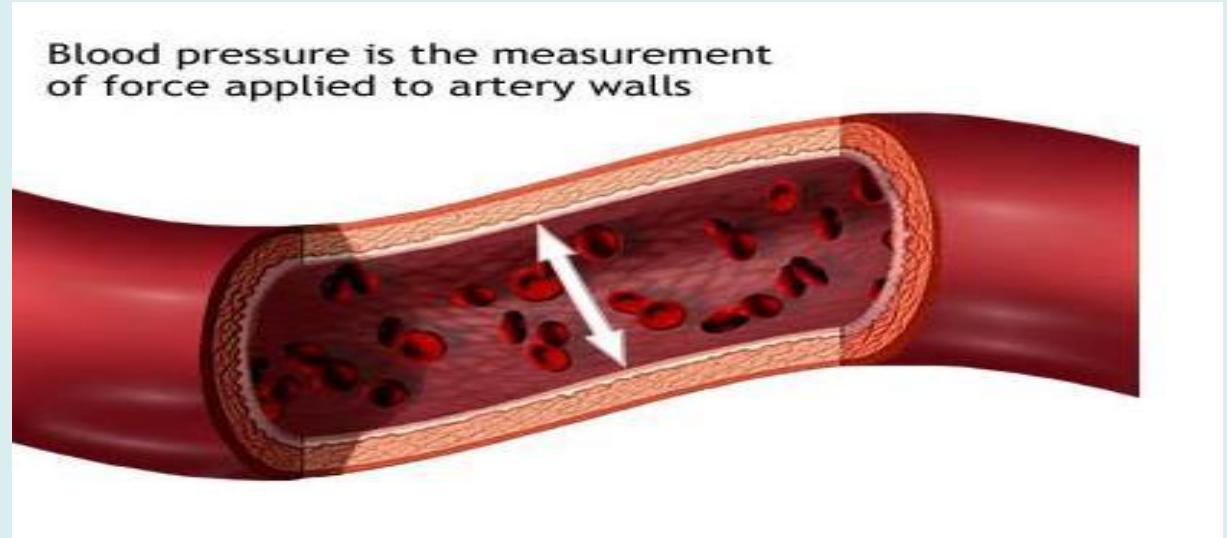
Blood pressure is the force of the blood
Pushing against the wall of your arteries.
You feel it as your pulse.

To measure your blood pressure you need a
digital sphygmomanometer

My blood pressure reading
is ____ / ____ mmHg



When the heart beats it pumps blood through blood vessels in the body called arteries.



- The artery stretches slightly because blood is pushing against its wall.
- The strength of this push causes a change in blood pressure.
- This is what you can feel as a pulse.

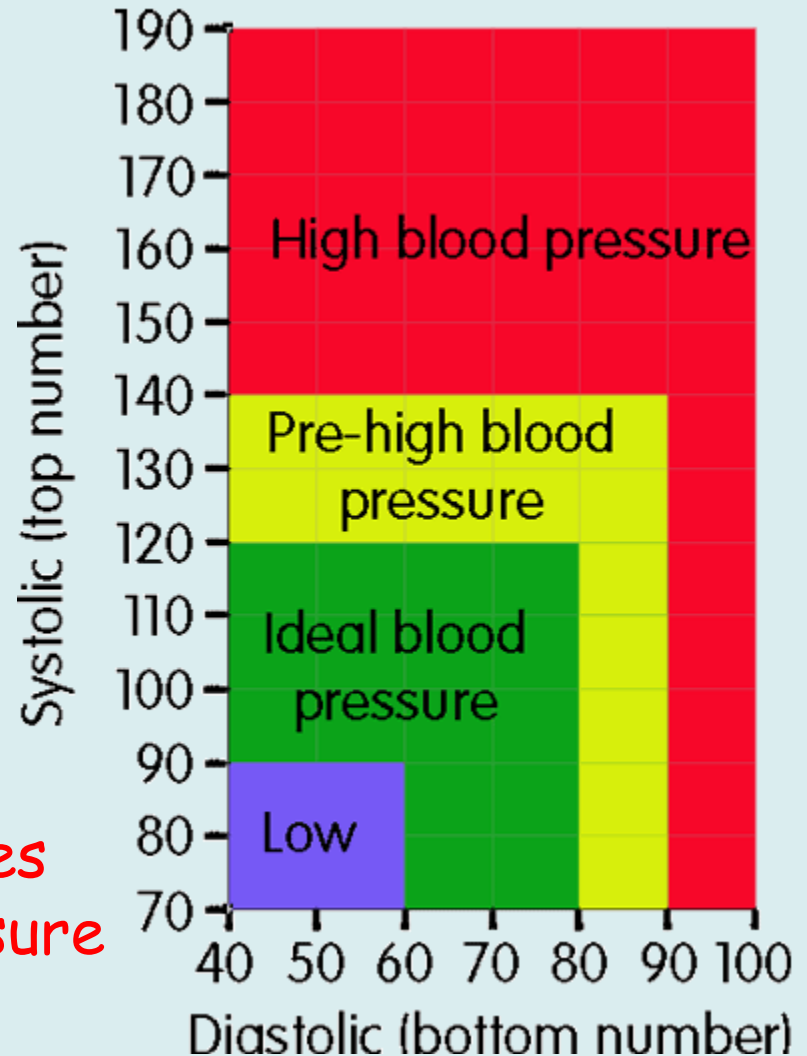
High Blood Pressure

Caused by:

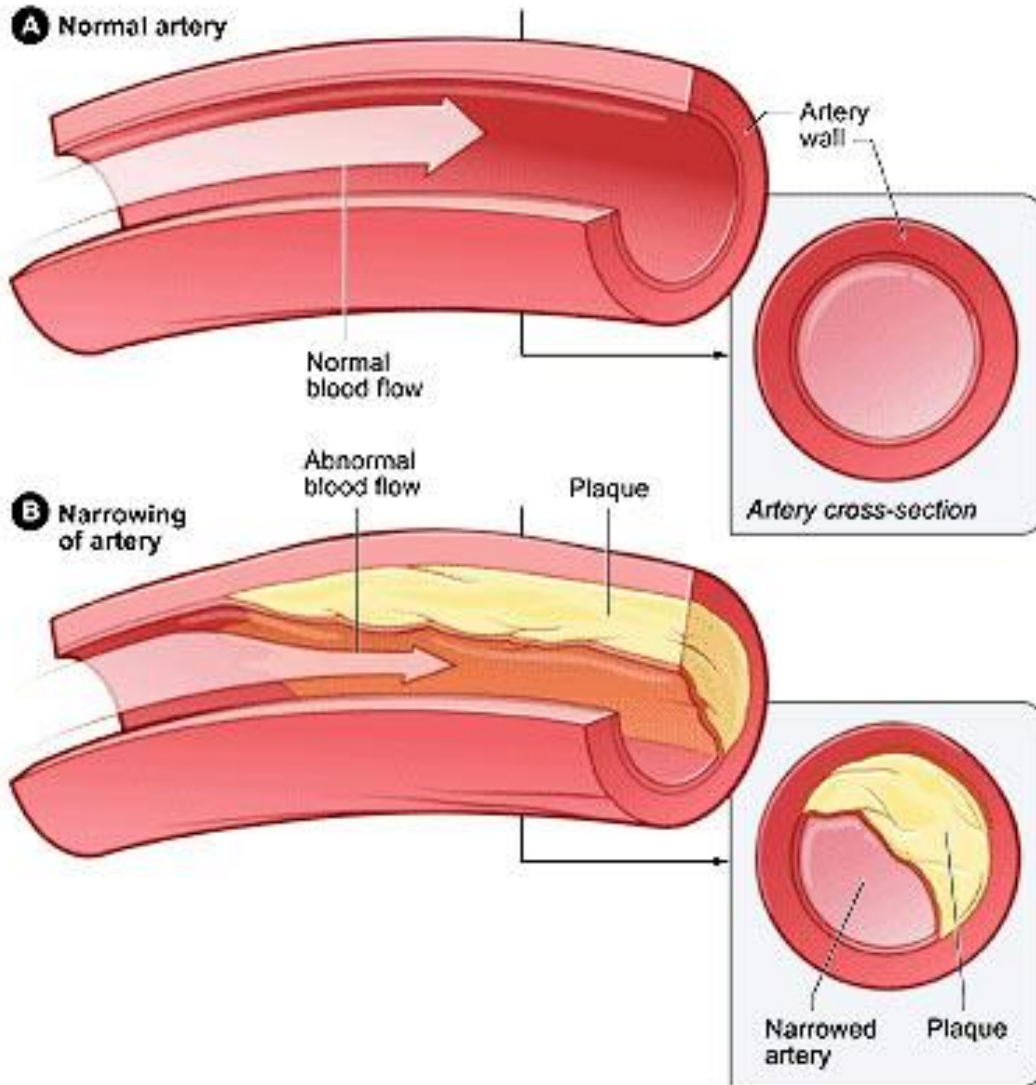
- Being overweight
- Lack of exercise
- Incorrect diet (fat, salt)
- Drinking alcohol excessively
- Stress



In your jotter give examples of high and low blood pressure



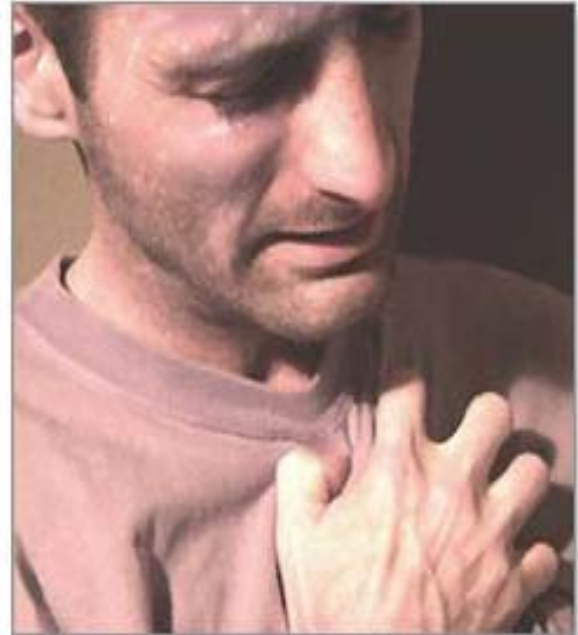
Arteries with fat build up



Can cause:

- Heart attack (*blood vessel blocked in heart*)
- Stroke (*blood vessel blocked in brain*)
- Angina (*low blood levels getting to heart*)

Indications of a heart attack include sweating, anxiety and chest pains



Low blood pressure

Rare but serious

Can cause:

Fainting

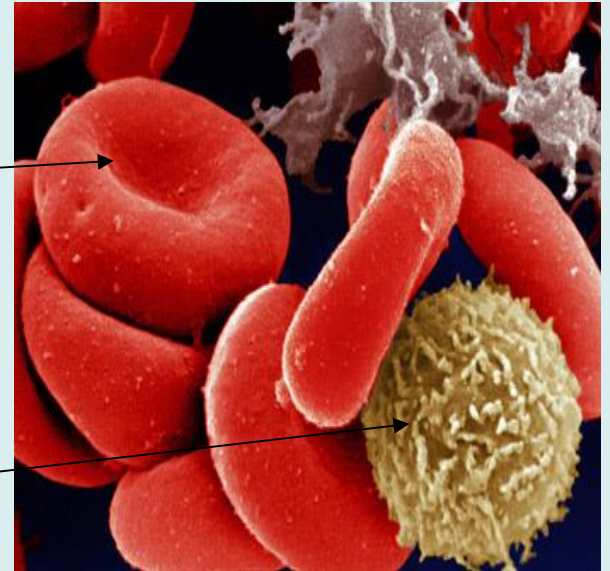
Heart failure



Blood

- Blood is a specialized body fluid.
- It has four main components:
- plasma, red blood cells, white blood cells, and platelets

- **Red blood cells**
Job is to transport OXYGEN
from the lungs to living tissue



- **White blood cells**
Job is to fight infection

- [The Components of Blood and Their Importance](#)



Homework 6



In your planner take a note when your homework is due.

You have to put your answers on the sheets and make sure all questions are attempted.

Please also ask your parent/guardian to sign your homework.

Check for Success

Name 1 cause of high blood pressure.

Any 2 from - being overweight, lack of exercise, incorrect diet (fat, salt), drinking alcohol excessively or stress.

What is a problem that is caused by low blood pressure?

Fainting or heart failure

Success Criteria

If this is a successful lesson you should be able to:

- State what blood pressure is.
- Use equipment to measure blood pressure.
- State values that are high/low blood pressure.
- Name the parts of the blood.

