Integrated Primary science book 6 by Tr. Tuhaise Roland 0752557416.

THEME: THE HUMAN BODY

TOPIC: THE CIRCULATORY SYSTEM

BLOOD CIRCULATION

What is blood circulation

- This is the movement of blood through the heart and blood vessels.
- This is the flowing of blood through the heart and blood vessels.
- This the movement of blood through/around the body.

Name two types of blood circulation

- Systemic circulation/single circulation
- Pulmonary circulation/Double circulation

Give two importance of blood circulation?

- It helps to distribute nutrients in the body.
- It helps to distribute oxygen in the body.
- It helps to distribute hormones in the body.
- It helps to distribute medicines in the body.
- It helps in the removal of wastes from the body.

Who discovered blood circulation?

- Sir William Harvey

THE CIRCULATORY SYSTEM

What is the circulatory system?

- This is a system of organs which help to circulate blood in the body.
- This is a body system that deals with the circulation of blood.

Name the materials transported in the body

- Nutrients (digested food)	- Antibodies
- Water	- Carbon dioxide
- Oxygen	- Poisons
- Hormones	- Urea
- Medicines	- Uric acid

Mention two components/parts of the circulatory system

- The heart
- Blood
- Blood vessels

THE HEART

- This is a blood plumbing muscular internal body organ.
- The heart is found in the chest cavity between the lungs.
- It is protected by the ribcage
- It is made of muscles called cardiac muscles.
- The heart is enclosed in a membrane called pericardium.
- The pericardium produces pericardial fluid
- The pericardial fluid lubricates the heart.
- It also reduces friction during heartbeat.

CHAMBERS OF THE HEART

- The mammalian heart has four chambers
- The upper chambers are called auricles/atria
- The lower chambers are called ventricles.
- Auricles/atria receive blood while ventricles pump blood.

Name the four chambers of the heart

- Right auricle/atrium
- Left auricle/atrium
- Right ventricle
- Left ventricle

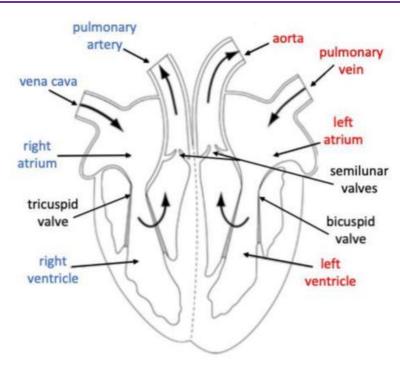
Name the blood vessel that supplies the heart muscles with nutrients and oxygen.

- Coronary artery.

SIDES OF THE HEART

- The heart has two sides (right side and left side)
- The right side handles deoxygenated blood
- The left side handles oxygenated blood
- The left side is thicker/more muscular than the right side.
- > It handles blood that is pumped with high pressure to all body parts.
- The right side is separated from the left side by the septum

THE STRUCTURE OF THE MAMMALIAN HEART.



FUNCTIONS OF EACH PART

1. Aorta

- Transports/carries oxygenated blood from the heart to all body parts.
- It is the largest artery in the body.

2. Vena cava

Integrated Primary science book 6 by Tr. Tuhaise Roland 0752557416.

- Transports/carries deoxygenated blood from all body parts to the heart.
- It is the largest vein in the body.
- Deoxygenated blood is then pumped from the heart to the lungs.

3. Pulmonary artery

- Transports/carries deoxygenated blood from the heart to the lungs.
- Blood goes to the lungs to remove carbon dioxide and get oxygen.
- Blood goes to the lungs to pick oxygen and drop carbon dioxide

4. Pulmonary vein

- It carries/transports oxygenated blood from the lungs to the heart.
- Blood comes back to the heart to be pumped to all body parts

5. Septum

- It prevents the mixing of oxygenated blood and deoxygenated blood.
- It prevents oxygenated blood from mixing with deoxygenated blood.
- It separates the two sides of the heart (left side and right side)

6. Right auricle

It receives deoxygenated blood from the body

7. The left auricle

It receives oxygenated blood from the lungs.