Big Question: What does my blood do?

What should I already know?

- *Which things are living and which are not.
- *Classification of animals (e.g. amphibians, reptiles, birds, fish, mammals, invertebrates)
- *Animals that are carnivores, herbivores and omnivores.
- *Animals have offspring which grow into adults.
- *The basic needs of animals for survival (water, food, air)
- *The importance of exercise, hygiene and a balanced diet.
- *Animals get nutrition from what they eat.
- *Some animals have skeletons for support, protection and movement.
- *The basic parts of the digestive system.
- *The different types of teeth in humans.
- *Respiration is one of the seven life processes.
- *The life cycle of a human and how we change as we grow.

What will I know by the end of the unit?

What is the circulatory *The circulatory system is made of the system? heart, lungs and the blood vessels. *Arteries carry oxygenated blood from the heart to the rest of the body. Veins carry deoxygenated blood from the body to the heart. *Nutrients, oxygen and carbon dioxide are exchanged via the capillaries. *Some choices, such as smoking and Choices that can harm the circulatory system drinking alcohol can be harmful to our health. *Tobacco can cause short-term effects such as shortness of breath, difficulty sleeping and loss of taste and long-term effects such as lung disease, cancer and death. *Alcohol can cause short-term effects addiction and loss of control and long-term effects such as organ damage, cancer and an earlier death. Why is exercise so Exercise can: *tone our muscles and reduce fat important? *increase fitness *make you feel physically and mentally healthier *strengthens the heart *improves lung function *improves skin

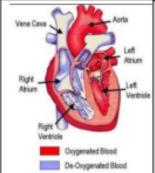


Diagram of the Heart:

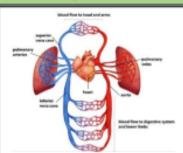
- *The heart is composed of four chambers; the right atrium, the right ventricle, the left atrium and the left ventricle.
- *How often your heart pumps is called your pulse.

Where will my learning go next?

Yr 7: Cells and organisation. The skeletal and muscular system. Nutrition and digestion. Gas exchange stems. Reproduction and health.

Vocabulary	
	the main artery through which blood leaves
aorta	your heart before it flows through the rest of
	1 -
artarlar	your body a tube in your body that carries oxygenated
arteries	
	blood from your heart to the rest of your body
atrium	one of the chambers in the heart
arteries	the narrow tubes through which your blood
	flows. Arteries, veins and capillaries are blood
	vessels
capilliaries	tiny blood vessels in your body
Carbon	a gas produced by animals and people
dioxide	breathing out
Circulatory	the system responsible for circulating blood
system	through the body, that supplies nutrients and
	oxygen to the body and removes waste
	products such as carbon dioxide.
deoxygenated	blood that does not contain oxygen
heart	the organ in your chest that pumps the blood
	around your body
lungs	two organs inside your chest which fill with air
	when you breathe in. They oxygenate the
	blood and remove carbon dioxide from it.
nutrients	substances that help plants and animals to
	grow
organ	a part of your body that has a particular
	purpose
oxygen	a colourless gas that plants and animals need
	to survive
oxygenated	blood that contains oxygen
pulse	the regular beating of blood through your
	body. How fast or slow your pulse is depends
	on the activity you are doing
respiration	process of respiring; breathing; inhaling and
	exhaling air
veins	a tube in your body that carries deoxygenated
	blood to your heart from the rest of your body
vena cava	a large vein through which deoxygenated
	blood reaches your heart from the body
ventricle	one of the chambers in the heart
via	through
	and a segre

Diagrams - The Circulatory System



1. The right atrium

collects the deoxygenated blood from the body, via the vena cava. It sends the blood to the right ventricle.

- The right ventricle pumps the deoxygenated blood to the lungs. Here the blood picks up oxygen and disposes of carbon dioxide.
- The lungs send oxygenated blood back to the left atrium which pumps it to the left ventricle.
- The left ventricle pumps the blood to the rest of the body, via the aorta