Year 6 Science

Topic: Animals including humans

How do choices affect how our bodies work?

Biology



What should I already know?

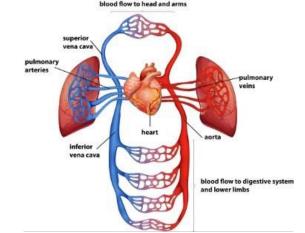
- Which things are living and which are not.
- Classification of animals (e.g. amphibians, reptiles, birds, fish, mammals, invertebrates)
- Animals that are carnivores, herbivores and omnivores.
- Animals have offspring which grow into adults.
- The basic needs of animals for survival (water, food, air)
- 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.

Big Ideas this works towards:

 Living things are special collections of matter that make copies of themselves, use energy and grow.

What will I know by the end of the unit?

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

What the circulatory system?

is The circulatory system is circulatory made of the heart, lungs system, and the blood vessels.

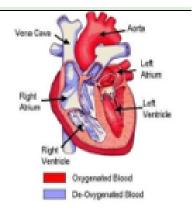
Arteries carry oxygenated blood from the heart to the rest of the body.

Veins carry deoxygenated blood from the body to the

e	aorta	the main artery through which blood leaves your heart before it flows through the rest of your body			
ie	arteries	a tube in your body that carries oxygenated blood from your heart to the rest of your body			
	atrium	one of the chambers in the heart			
	Blood vessels	the narrow tubes through which your blood flows.			
ıe		Arteries, veins and capillaries are blood vessels.			

Diagram -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.



arteries	a tube in your body that carries oxygenated blood from your heart to the rest of your body			
atrium	one of the chambers in the heart			
Blood vessels	the narrow tubes through which your blood flows. Arteries, veins and capillaries are blood vessels.			
capillaries	tiny blood vessels in your body			
Carbon dioxide	a gas produced by animals and people breathing out			
Circulator y system	the system responsible for circulating blood 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			