Key vocabulary	
heart	The heart pumps blood
	around your body.
pulse	Each time the heart beats it
	can be felt as a pulse in the
	arteries. Typically, in the
	wrist and neck.
blood	The red liquid pumped around
	the body by the heart. It
	transports oxygen, nutrients
	and water to all the parts of
	the body.
blood	The narrow tubes which our
vessels	blood flows through
	including the arteries, veins
	and capillaries.
lungs	Two organs situated in the
	ribcage that fill with air
	when you breathe in. They
	remove carbon dioxide from
	blood and add oxygen.
circulatory	This circulates blood through
system	the body. It consists of the
	heart, blood and blood
	vessels.
diet	The sort of food animals or
	humans regularly eat.
exercise	Activity that requires
	physical effort, carried out
	to sustain or improve health
	and fitness.
drugs	A medicine or other
	substance that has an effect
	in a person's body.
lifestyle	The way in which a person
	lines.

# Exercise and Pulse Rate W Sally Sally Sam Time in minutes

Our **pulse rate** increases when we do exercise.

## Animals including humans - Year 6

## Significant scientist William Harvey was an (1578-1657) William Harvey was an English physician and the first person to correctly describe blood's circulation in the body. He showed that arteries and veins form a complete circuit.

### Healthy bodies

Diet, exercise, drugs and other lifestyle choices have an impact on how our bodies function. This can affect how well our heart and lungs work and how fit and well we feel.

Some choices such as smoking, drinking alcohol and obesity can be harmful to our health:

### Smoking

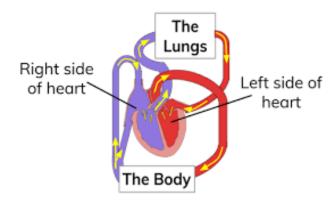
Can cause shortness of breath, heart and lung disease.

### Alcohol

Too much
alcohol can
damage the
liver, heart
and stomach.

Why is exercise so important?

Exercise can increase fitness, make you feel physically and mentally healthier, strengthen your heart and improve your lung function.



- The heart pumps blood in the blood wessels to the lungs where oxygen goes into the blood and carbon dioxide is removed.
- · The blood goes back to the heart.
- It is then pumped around the body so that water, nutrients and oxygen are transported in the blood to the muscles and all the other parts of the body where they are needed. As all these are used, they produce carbon dioxide and other waste products.
- Carbon dioxide is carried by the blood in blood vessels back to the heart.
- The cycle starts again as the carbon dioxide is then transported back to the lungs to be removed from the body.

The circulatory system transports nutrients and water in the blood to all the parts of the body that need them. These nutrients provide us with energy.

