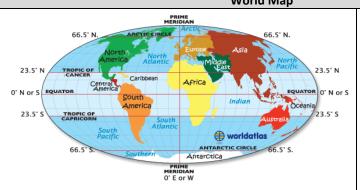
Berkswell CE Primary School Year 6 – Geography – World Maps



	Vocabulary
biome	a large region of Earth that has a certain climate and certain types of
	vegetation and animals
climate zone	sections of the Earth that are divided according to the climate. There are three
	main climate zones; polar, temperate and tropical.
compass	any of the main points of a compass: north, south, east, west, north-east,
points	north-west, south-east, south-west
continent	a very large area of land that consists of many countries.
country	an area of land that is controlled by its own government.
desert	a large area of land where there is almost no water, rain, trees, or plants
equator	an imaginary line around the middle of the Earth at an equal distance from the
	North Pole and the South Pole.
hemisphere	half of the Earth (Northern or Southern)
latitude	imaginary horizontal lines that circle the Earth parallel to the equator
longitude	imaginary vertical lines that stretch from the North Pole to the South Pole
ocean	one of the five very large areas of salt water on the Earth's surface
Prime	also called the Greenwich meridian, an imaginary line that runs from the North
Meridian	Pole to the South Pole and passes through Greenwich, England
population	all the people who live in a country or area
temperate	a place which is never extremely hot or extremely cold
time zone	24 different time zones across the world
tropical	parts of the world that lie between the imaginary lines; Tropic of Cancer (23.5°
	north of the Equator) and the Tropic of Capricorn (23.5° south of the Equator).
	The tropics have a humid climate , where the weather is hot and damp.
tundra	a flat area of land where the top layer is frozen. There is hardly any vegetation.
vegetation	plants, trees and flowers found in a particular area
	World Map

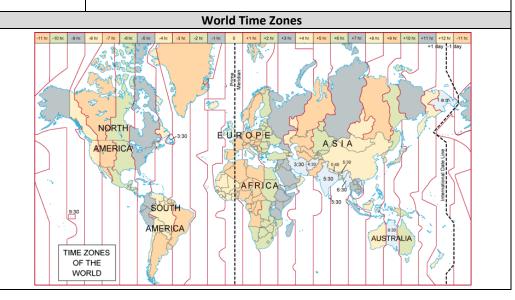


- The seven continents
- The five oceans
- The Equator
- The Tropic of Cancer and The Tropic of Capricorn
- The lines of latitude and longitude
- The Prime Meridian

	What will I know by the end of the unit
What should I already know?	 The seven continents and five oceans There are different climate zones (e.g. polar regions) Human and physical geographical features in different countries, cities and towns
Geographical Skills and Fieldwork	 How to use an atlas, maps and globes to locate countries in different locations across the earth. Understand that the earth is split into the northern and southern hemisphere and the key differences between these – population and amount of water. The eight points of a compass in order to describe the locations of countries in relation to one another. Compare climate zones and discuss how these are dependent on their location on Earth. How to locate countries and major cities using coordinates of longitude and latitude. Describe the location of contrasting places (including the polar regions)

Describe the location of contrasting places (including the polar regions) using key vocabulary, their human and physical geographical features, their climate (and how their location on Earth affects this), and describe their similarities and differences.

How the Greenwich Meridian affects time zones across the world.



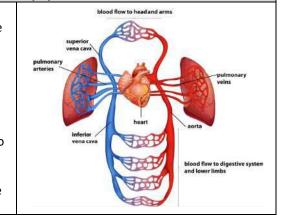
Berkswell CE Primary School Year 6 – Science – Animals, including Humans (The Heart and Lungs)



	Vocabulary
arteries	a tube in your body that carries oxygenated blood from your heart to the
	rest of your body
blood vessels	the narrow tubes through which your blood is transported around the
	body. Arteries, veins and capillaries are blood vessels.
carbon dioxide	a gas produced by animals and people breathing out
circulatory	the system responsible for circulating blood through the body, that
system	supplies nutrients and oxygen to the body and removes waste products
	such as carbon dioxide .
cycle	a series of events that are repeated in the same order.
deoxygenated	blood that does not contain oxygen
diet	the kinds of food that a person/animal eats.
drugs	a medicine or other substance which has a physiological effect when
	taken into the body.
exercise	activity requiring physical effort to improve health and fitness.
heart	the organ in your chest that pumps the blood around your body which is
1:6	made up of chambers known as atriums and ventricles .
lifestyle	the way in each a person lives
lungs	two organs inside your chest which fill with air when you breathe in. They oxygenate the blood and remove carbon dioxide from it.
muscles	a bundle of fibrous tissue in a human or animal body.
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 rate	the number of times the heart beats per minute as blood is pumped
	through the 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
	The Heart
	composed of four chambers: the right
	ight ventricle, the left atrium and the
left ventricle	
How often you	our heart pumps is called your pulse.

	What will I know by the end of the unit
What is the	• The circulatory system is made up of the heart , the lungs and the blood
circulatory	vessels.
system?	 Arteries carry oxygenated blood from the heart to the rest of the body,
	including the lungs
	 Veins carry deoxygenated blood from the body back to the heart.
	Nutrients, water and oxygen are transported in the blood to the muscles
	and other parts of the body.
	Carbon dioxide is carried in the blood back to the heart then to the lungs
	to be removed from the body.
Choices that	Some choices, such as smoking and drinking alcohol can be harmful to
can harm	our health.
the	Tobacco can cause short-term effects such as shortness of breath,
circulatory	difficulty sleeping and loss of taste and long-term effects such as lung
system	disease, cancer and death.
	 Alcohol can cause short-term effects such as addiction and loss of
	control and long-term effects such as organ damage, cancer and death.
	Diet choices can impact on the way our bodies function.
Why is	Exercise can:
exercise so	tone our muscles and reduce fat
important?	• increase fitness
	 make you feel physically and mentally healthier
	• strengthens the heart
	• improves lung function
	• improves skin
	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**.



Berkswell CE Primary School Year 6 – Science – Electricity



	Vocabulary
ammeter	measures the current in a circuit
appliances	a device or machine in your home that you use. Appliances are often
	electrical.
battery	small devices that provide the powe r for electrical items such as
	torches
bulb	the glass part of an electric lamp, which gives out light when
	electricity passes through it.
buzzer	an electrical device that is used to make a buzzing sound
cell	a synonym for battery
circuit	a route which an electric current can flow around
component	the parts that something is made of
conductor	a substance that heat or electricity can pass through or along
current	current a flow of electricity through a wire or circuit
device	an object that has been invented for a particular purpose
electricity	a form of energy that can be carried by wires
energy	the power from sources such as electricity that makes machines work
	or provides heat
fuel	a substance such as coal, oil, or petrol that is burned to provide heat
	or power
generate	cause it to begin and develop
insulator	a non-conductor of electricity or heat
mains	mains where the supply of water, electricity , or gas enters a building
motor	a device that uses electricity or fuel to produce movement
power	Power is energy , especially electricity , that is obtained in large
	quantities from a fuel source and used to operate lights, heating and
	machinery
resistance	a force which slows down a moving object or vehicle
resistor	a part of an electrical circuit that provides resistance to some of the
	current
source	where something comes from
switch	a device for making and breaking the connection in an electric circuit
voltage	the force of an electrical current is measured in volts
wires	a long thin piece of metal that is used to fasten things or to carry an
	electrical current

What I should already know

- Electricity is a form of energy that can be carried by wires and is used for heating and lighting, and to provide power for devices.
- Sources of light and sound may need electricity to work.
- Where electricity comes from
- Which appliances need electricity
- What a circuit is, the components of a circuit and how it works.
- What electrical conductors and insulators are.
- What happens when a switch is added to a circuit.
- What forces and resistance are.

What I will know by the end of this unit

- Know different circuit symbols and their meanings and use these to draw simple circuit diagrams.
- Know what happens when more batteries, or batteries of a higher voltage, are added to a circuit and be able to explain why this happens.
- Know what happens when more bulbs, buzzers and motors are added to a circuit and explain why this happens.
- Know the effect of changing one component at a time in a circuit. For example:
 - o what happens when the length of the wires changes
 - o what happens when you add a resistor to a circuit
 - o what happens when you turn a switch off (open)

Circuit Symbols

Symbol	Component
—A—	ammeter
	battery
$-\otimes$	bulb
A	buzzer
	cell
	motor
	resistor
0	switch (open)
-00-	switch (closed)

