<u>Year 4- Geography</u>

Interconnected world

<mark>Misty mountain, winding river</mark>

Locational knowledge	Place knowledge	Human and physical geography	Geographical skills and fieldwork
The Tropic of Cancer is 23			The four cardinal directions are north (N), east (E),
degrees north of the equator and	Countries nearer the	Physical features, such as mountains and rainforests, can	south (S) and west (W), which are at 90° angles on the compass rose. The four intercardinal (or ordinal)
Tropic of Capricorn is 23 degrees	equator are hotter and	affect the climate. (IW)	
south of the equator. (IW)	countries further from		directions are halfway between the cardinal directions:
	the equator are colder.		north-east (NE), south-east (SE), south-west (SW)
The North American continent	Some countries have	Significant rivers of the UK include the Thames, Severn,	and north-west (NW). (IW)
includes the countries of the USA,	contrasting climate	Trent, Dee, Tyne, Ouse and Lagan. Significant mountains	
Canada and Mexico as well as the	zones. (IW)	and mountain ranges include Ben Nevis, Snowdon, Helvellyn,	
Central American countries of		Pen y Fan, the Scottish Highlands and the Pennines. (IW)	A six-figure grid reference contains six numbers and
Guatemala, Honduras, Nicaragua,	Cultural studies of a		is more precise than a four-figure grid reference. The
Costa Rica and Panama.	country include the		first three figures are called the easting and are
	language, religion and	Significant physical features of the UK include mountains,	found along the top and bottom of a map. The second
The South American continent	values of the people who	rivers, islands, lakes and forests. (IW)	three figures are called the northing and are found
includes the countries of Brazil,	originate from, or live		up both sides of a map. Six-figure grid references give
Argentina, Chile, Colombia, Peru,	in, a particular place.	The environment produces natural resources. Humans use	detailed information about locations on a map. (IW)
Venezuela, Uruguay, Ecuador,	(₩)	some natural resources to make energy. Some natural	
Bolivia and Paraguay. (IW)		resources cannot be replaced, like coal or oil. They are non-	
		renewable. Some, like wind or flowing water, are renewable	An atlas is a collection of maps and information that
Land uses include agricultural,		sources of energy. (IW)	shows geographical features, topography, boundaries,
recreational, housing and industry.	Altitudinal zonation		climatic, social and economic statistics of an area.
Water systems are used for	describes the different		(Both)
transport, industry, leisure and	climates and types of	Renewable energy includes solar power, wind power,	
power. (Both)	wildlife at different	hydropower, geothermal energy and bioenergy. (IW)	
	altitudes on mountains.		Atlases often contain additional data about countries,
	(MMWR)		such as their population and land height. (IW)

Topography is the arrangement of	Human features can be interconnected by function, type and	
the natural and artificial physical	transport links. (IW)	
features of an area. (MMWR)		Fieldwork techniques, such as sketch maps, data
	The canals in Britain are man-made waterways that were	collection and digital technologies can provide evidence
A contour line is a line on a man	created during the industrial Revolution to transport raw	to support and answer a geographical hupothesis (IW)
	a sected during the made around the sound to that sport have	to support and answer a geographical hypothesis. (1007
inai joins areas of equal height	materiais and goods around the country. Locks, tunnels and	
and shows the elevation of features	aqueducts are all teatures of canals. Canals declined when	
in the landscape. (MMWR)	railways and roads developed but were conserved atter the	A hypothesis is a statement that is then proved or
	Second World War and are used for recreation and leisure	disproved by gathering and interpreting evidence.
	today.	(∨∨)
		Secondary data includes information gathered bu
	A physical feature is one that forms naturally and can	geographical reports surveys maps research books
	change over time due to physical processes such as erosion and	and the internet $(M/M/R)$
	une the use Device for the state of project of the state	
	weathering. Physical features include rivers, foresis, nills,	
	mountains and clitts. An aspect of a physical teature might be	
	the type of mountain, such as dome or volcanic, or the type of	
	forest, such as coniferous or broad-leaved. (MMWR)	
	A river is a body of water that flows downhill, usually to the	
	sea. The place where a river starts is called the source.	
	Tributaries are small rivers or streams that flow into larger	
	rivers or lakes Meanders are hends in rivers. The place where	
	a river flows into the sea is called the mouth (MMM/R)	
	a river rows true the sea is called the mouth. (WINTVI)	
	Rivers and the landscape that surrounds them have different	
	characteristics. The upper course of a river is tunically cheep	
	narrow and rocky. The water is fast flowing and turbulant	
	The middle course of a ning instant of the day of the second seco	
	The miaale course of a river is wiaer, aeeper and curves in	
	meanders. The water flows more slowly. The lower course of a	
	river is tlat and wide. The water runs into estuaries or	
	creates deltas. (MMWR)	

The River Trent is the third longest river in the UK. The river has a range of physical and human features along its course. (MMWR)
Rivers transport materials in four ways. Solution is when minerals are dissolved and carried in the water. Suspension is when fine, light material is carried. Saltation is when small pebbles and stones are carried along the riverbed. Traction is when large boulders and rocks are rolled along the riverbed. (MMWR)
Significant rivers include the Mississippi, Nile, Thames, Amazon, Volga, Zambezi, Mekong, Ganges, Danube and Yangtze. (MMWR)
A mountain is a natural elevation of the Earth's surface, rising to a summit. Mountains have an elevation greater than that of a hill, usually greater than 610m. (MMWR)
Mountains form over millions of years. They are made when the Earth's tectonic plates push together or move apart. Mountains are also formed when magma underneath the Earth's crust pushes large areas of land upwards. There are five types of mountain: fold, fault-block, volcanic, dome and plateau. (MMWR)
There are four mountain ranges in the UK that are home to each country's highest mountain: Ben Nevis, in the Grampian Mountains, Scotland; Scafell Pike, in the Cumbrian Mountains, England; Snowdon, in the Snowdonia Mountains,

Wales; and Slieve Donard, in the Mourne Mountains, Northern Ireland. (MMWR)	
Significant mountain ranges include the Himalayas, Urals, Andes, Alps, Atlas, Pyrenees, Apennines, Balkans and Sierra Nevada. Significant rivers include the Mississippi, Nile, Thames, Amazon, Volga, Zambezi, Mekong, Ganges, Danube and Yangtze. (MMWR)	
Flooding can happen for a wide variety of natural and human reasons including excessive rainfall, lack of river dredging, land use and the topography of the land. (MMWR)	

Skills

- Use the eight points of a compass, four and six-figure grid references, symbols and a key to locate and plot geographical places and features on a map. (IW)
- Use four or six-figure grid references and keys to describe the location of objects and places on a map. (IW)
- Identify the location of the Tropics of Cancer and Capricorn on a world map. (IW)
- Locate the countries and major cities of North, Central and South America on a world map, atlas or globe. (IW)
- Explain climatic variations of a country or continent. (IW)
- Create a detailed study of geographical features including hills, mountains, coasts and rivers of the UK. (Both)
- Describe how natural resources can be harnessed to create sustainable energy. (IW)
- Describe a range of human features and their location and explain how they are interconnected. (IW)
- Explain ways that settlements, land use or water systems are used in the UK and other parts of the world. (IW)
- Investigate a geographical hypothesis using a range of fieldwork techniques. (IW)
- Study and draw conclusions about places and geographical features using a range of geographical resources, including maps, atlases, globes and digital mapping. (MMWR)
- Explain how the physical processes of a river, sea or ocean have changed a landscape over time. (MMWR)
- Name, locate and explain the importance of significant mountains or rivers. (MMWR)
- Describe and compare aspects of physical features. (MMWR)
- Identify, describe and explain the formation of different mountain types. (MMWR)
- Identify the topography of an area of the UK using contour lines on a map. (MMWR)
- Use specific geographical vocabulary and diagrams to explain the water cycle. (MMVVR)
- Describe altitudinal zonation on mountains. (MMWR)
- Collect and analyse primary and secondary data, identifying and analysing patterns and suggesting reasons for them. (MMWR)