# GEOGRAPHY KNOWLEDGE BOOK

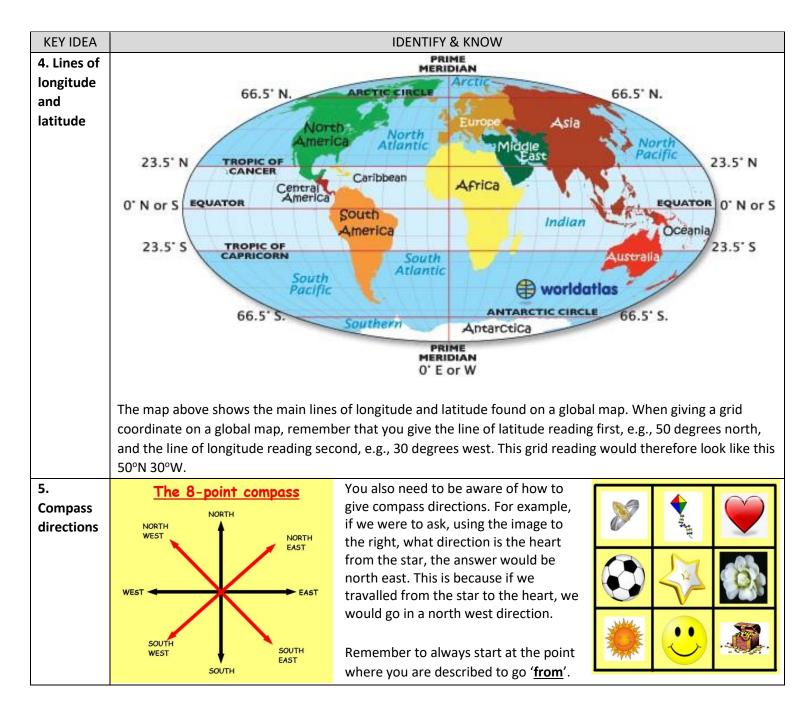


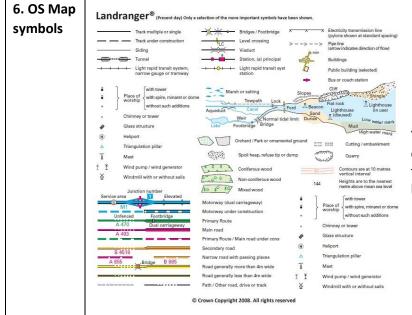
## YEAR 7

#### YEAR 7: SKILLS

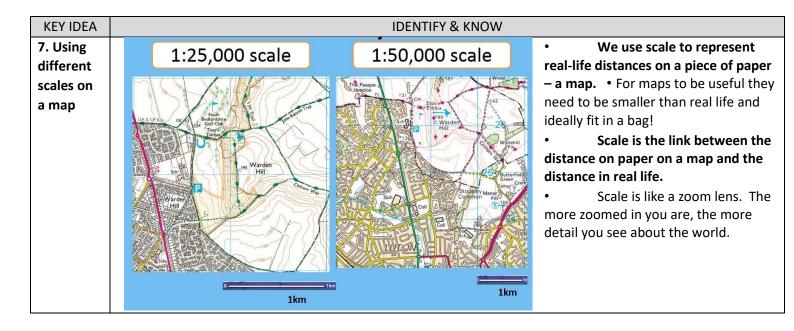
The information here is what all students MUST know. Use this sheet as a checklist to identify what is clear to you, what you need to work on, and what you can tick off once revised. If you have any doubts or questions, please come and see your teacher – we will be very happy to help!

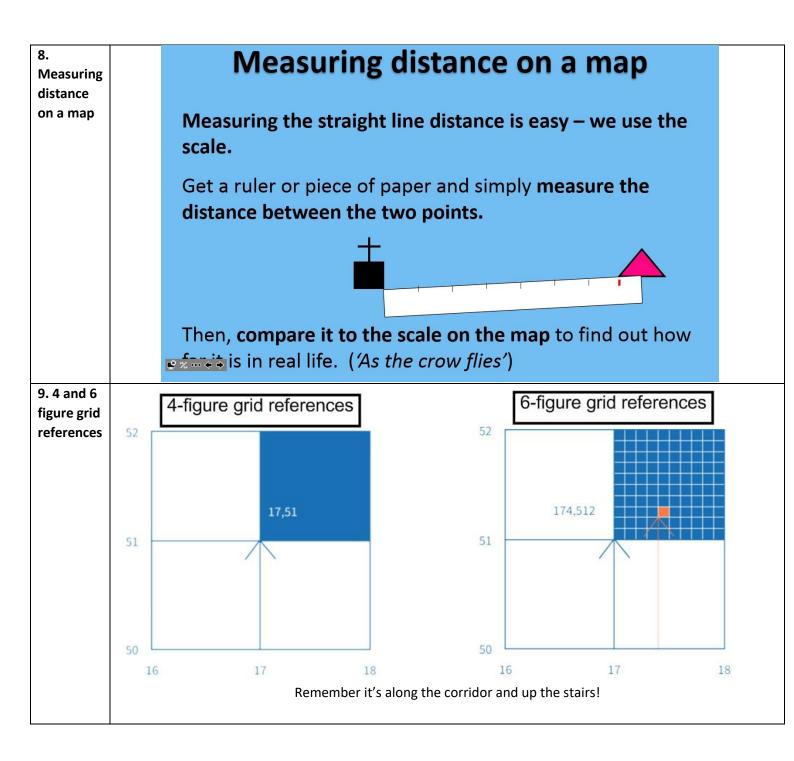
KEY IDEA	A IDENTIFY & KNOW			
1. Three	Human geography- This is the study of humans and their actions. It is the study of	where and how people live,		
different	for example, the types of jobs people do any the reasons why people migrate from	place to place.		
types of	Physical geography- This is the study of the earth's natural features and natural ev	ents. For example, why a		
geography	volcano erupts or why different parts of the global receive different weather patte	rns.		
0017	Environmental geography- This is the study of peoples impact on the natural world and how we change our			
	surroundings. For example, human extract large quantities of fossil fuels like coal f	surroundings. For example, human extract large quantities of fossil fuels like coal from the ground and use it to		
	generate power for electricity. This releases greenhouses gasses which trap heat ir	our atmosphere and warm		
	the earth (process known as global warming).			
2. Types	You need to be aware and able to read a variety of map types. Examples of the two	o most common are: <u>Atlas</u>		
of maps	maps			
-	An atlas will usually show you the	An atlas will usually show you the names of the different		
	countries around the world. These	e are sometimes known as		
	political maps.			
		Make sure that you are aware of the 7 continents, there		
		locations and some examples of countries than can be found		
	in each continent.	in each continent.		
	and a second sec	Atlas maps are also sometimes used to plot other information		
		such population density or life expectancy. This additional		
	layer of information is often show	0		
	colour of which the meaning of is	colour of which the meaning of is displayed in a key. <u>OS maps</u>		
	Winder and Control Polinical State			
		Ordinance survey maps are maps that show detailed information, at different		
	Burness A A A A A A A A A A A A A A A A A A	scales (1:25000 and 1:50000 are the most common), of the human and physical features of the UK. In short, they are maps of what you will find in real life in		
	Gatesgarth	you will find in real life in		
	great detail.	great detail.		
	The second secon			
	A REAL AND A	These are the maps that you will often be asked skill based questions on, for		
	example, 4 and 6 figure grid references.			
	A DECEMBER OF			
	Construction of the second			
3. Atlas	Atlases can contain a huge			
Skills	range of information. You	sical Features		
	will need to be able to	212		
	recognise and describe	idesert		
	patterns of both human and			
	physical features. You will			
	also need to be able to	8 4		
	relate human geography to KEY ther	and		
	patterns of physical over 200 people per square km (ppsk) South China Sea over 2000 m	Ŏ		
	geography. Example right.	v 1000 km		

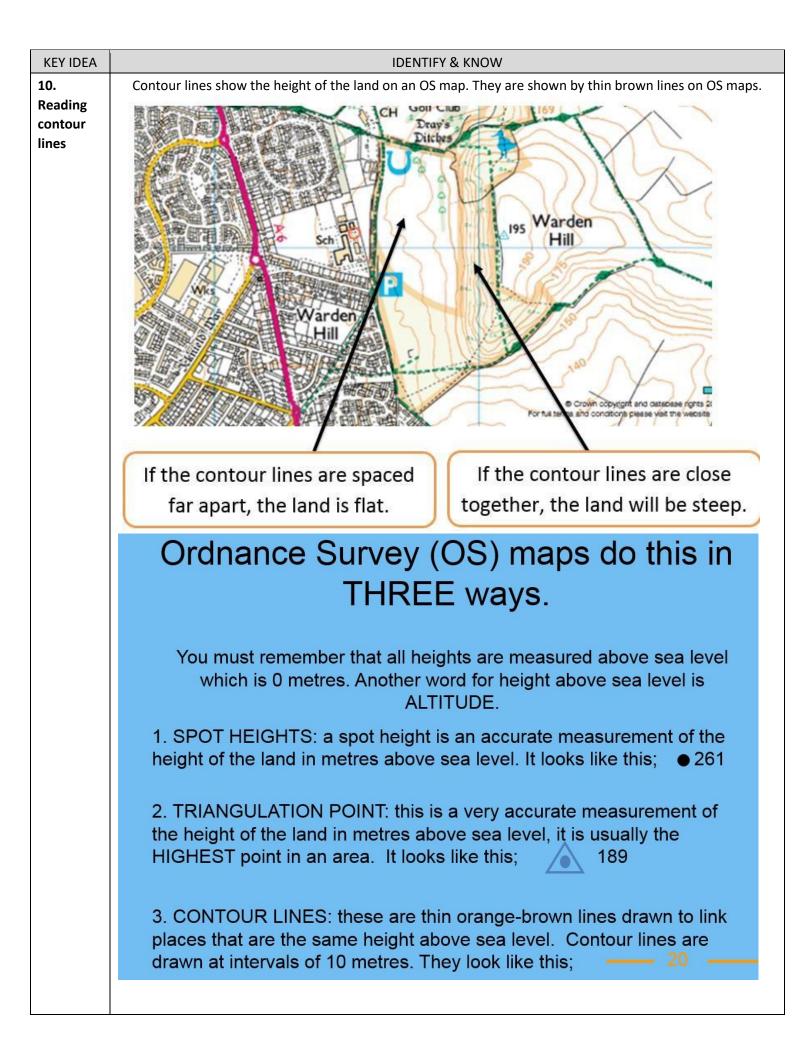


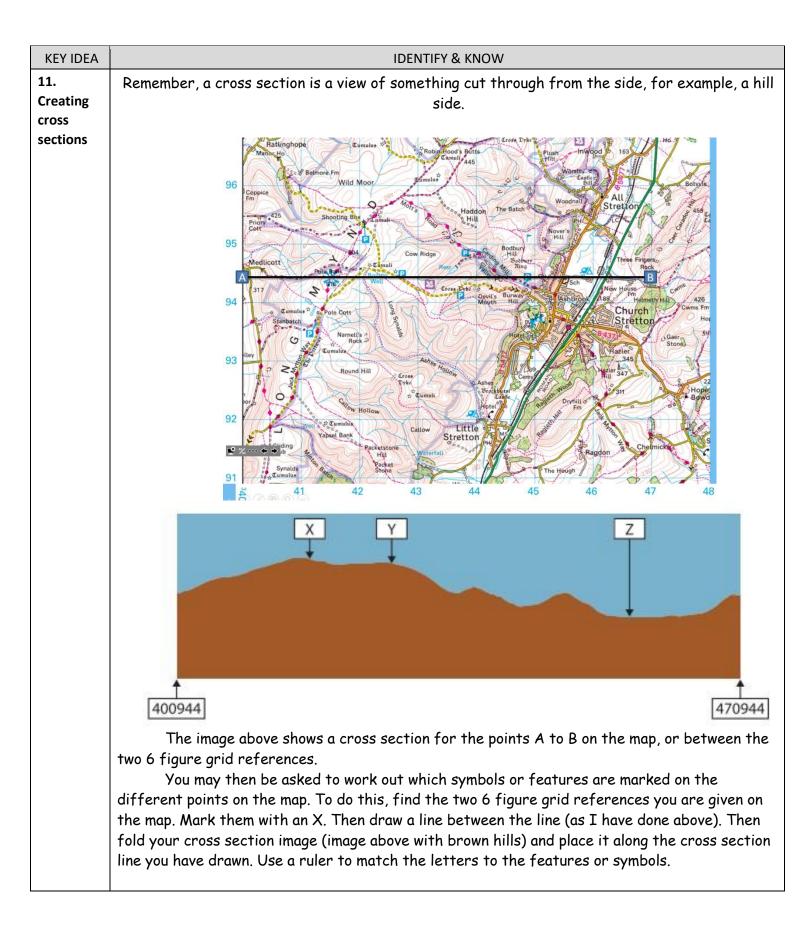


You do not need to remember them of by heart but you do need to know how to use a key on an OS map to read the map symbols. The main symbols are shown to the left.









### WEATHER & CLIMATE

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KEY IDEA	IDENTIFY & KNOW
1. Weather	Weather is the condition of the air around us over a short period of time. Meteorology is the study of the weather. Meteorologists measure and record all the features of the weather everyday using expensive equipment in order to provide us with essential weather forecasts. However, we can record the weather ourselves using simple observations of temperature, precipitation, wind speed, wind direction, cloud cover and visibility.
2. Climate (e.g. Britain)	<ul> <li>Climate is the average weather conditions taken over many years.</li> <li>There are seasonal variations in Britain's climate as shown by the maps (right). The maps show that: <ol> <li>Temperatures are higher in summer than in the winter</li> <li>Temperatures at any one time are not the same all over Britain</li> <li>The pattern of temperature is different in the two seasons</li> </ol> </li> <li>There are many reasons for the temperature variations across Britain: <ol> <li>Wind direction – northerly winds are cold, southerly winds are warm, westerly winds are wet</li> </ol> </li> </ul>
	<ul> <li>and easterly winds are dry. The direction of the wind is therefore hugely influential.</li> <li>Ocean currents - in winter a warm ocean current known as the North Atlantic Drift raises the temperatures in the west</li> <li>Latitude - this is the distance from the equator. Generally locations closer to the equator are warmer. This means that in the summer, the sun warms the south more than the north.</li> <li>Height (altitude) – temperatures are lowered in hills and mountains by about 1°C for every 100m in height. Britain's uplands in the north and west for this reason, are generally cooler.</li> <li>Distance from the sea – the sea keeps coastal locations warm in the winter but cooler in summer. Places inland have warm summers and cooler winters.</li> </ul>
	variations seasonally. However, the amount of rainfall varies considerably from place to place with the greatest differences between the east and west. This is due largely to <b>relief rainfall</b> (see below).

3. Rainfall	How does it rain? Clouds are made up of small drops of moisture called <b>cloud</b> <b>droplets</b> . These are only visible because billions of them crowd together to form clouds. Clouds form where moist air rises, cools and <b>condenses</b> to form cloud droplets. A cloud will release rain after these tiny droplets grow thousands of times larger into raindrops which then fall to the ground.	Condensation occurs and cloud droplets form to create clouds Air cools Air rises
KEY IDEA	IDENTIFY & KNOW	

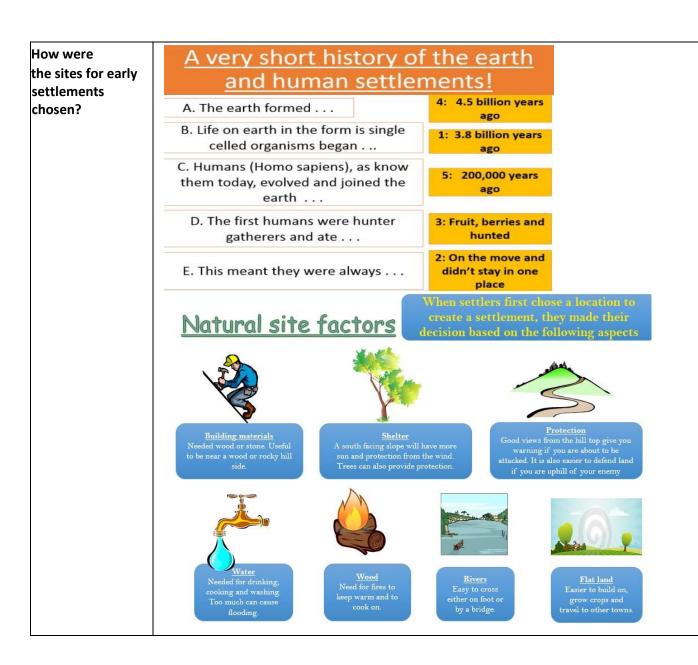
KEY IDEA	IDENTIFY & KNOW			
	different types of <b>Relief rainfall</b> – oc mountains. As it ri	rainfall: <b>relief; co</b> ccurs when mois <sup>:</sup> ises, it cools resu above. This is co	fferent ways giving three <b>prvectional</b> and <b>frontal</b> . air is forced to rise over lting in the rainmaking mmon in the west of l is located.	Goud and rain Air rises over table bottors were moist air Use Desires Were East
	Rising air cools		by the sun. The air above	ccurs when the ground surface is heated the ground is warmed up, rises and as it and rain follows. This is common in the
	temperature, it ris it is made to rise, the cold and warn	cloud and rain w n air meet is calle	Frontal rainfall – occurs when a mass of warm air meets air at a lower he colder, heavier air. Once ill follow. The place where ed a front hence the name. year but especially in winte	e Warm air Cold air
4. Anticyclones	The weather we experience is determined by changes in air pressure within the atmosphere. <b>Air pressure</b> is the weight of the air pressing down on us from above. <b>Anticyclones</b> are <b>high pressure</b> weather systems characterised by sinking air. They usually give good weather. The features associated with anticyclones are as follows:			
	Features	Summer		Winter
	Weather	High temperatur (heatwave cond	es, sunny weather tions)	Low temperatures, clear skies, frost and fog
	Cloud cover	None		None
	Wind speed	Light		Light
	Wind direction	Clockwise		Clockwise
	Rain	None		None
	Duration	Last several days		Last several days
	Area affected	Large - usually th	e whole country	Large - usually the whole country

5. Depressions	-	<b>ow pressure</b> weather systems characterise er. The features associated with a depressio	
	Features	Summer or winter	LOW 998 1002 1006
	Weather	Unsettled, stormy conditions wind and rain	
	Cloud cover	Thick, overcast	
	Wind speed	Strong	1014
	Wind direction	Anti-clockwise	
	Rain	Heavy to light	HIGH
	Duration	A day or so	
	Area affected	Small – usually part of the country	
	Depressions usua	lly form over the Atlantic and generally trac	k from west to east across the country
	bringing a sequer	nce of weather.	

#### YEAR 7: URBANISATION

The information here is what all students MUST know. Use this sheet as a checklist to identify what is clear to you, what you need to work on, and what you can tick off once revised. If you have any doubts or questions, please come and see your teacher – we will be very happy to help!

KEY IDEA	IDENTIFY AND KNOW
use types	Rural – The countryside, where people live on farms and small villages. There may be lots of fields and not much housing Urban – An area with a large population, lots of housing. A town or city
	From little to large Some settlements are only tiny. Some are large and lively with a whole range of services. Look at these examples:
	1 Hamlet Perhaps a phone box – or perhaps not! But as the stillement grows larger more services appear. For example 2 Small village church, pub or two, perhaps village shop and post office



KEY IDEA	IDENTIFY & K	NOW	
Different			
settlement patterns	How is the shape of a settlement classified?	ed nor	
	<u>Dispersed</u> : Dispersed settlements have buildings which are spread out, e.g. farmhouse in the middle of fields or a few houses in a mountainous area. They are dispersed because farmers need a lot of land for grazing and growing crops.		
	<u>Nucleated:</u> Nucleated settlements have buildings which are close together. They often grew around a road junction or a river crossing.		
	<u>Linear:</u> Linear settlements have a long and narrow shape. They often follow roadways, riverbanks, canals or narrow valleys where there is little room to grow outwards.		
Why	No town or village remains the same for ever. Over a pe	riod of time the following may all change;	
settlements	1. The <b>shape</b> of a settlement (see above)		
change with	2. The <b>function</b> of a settlement- This is the main purpose for the settlement, for example, the main		
time	types of employment or work that goes on in the settlement, like farming.		
	3. The <b>land use</b> of a settlement- This is how humans choose to use the land, for example, the land		
	<ul><li>may be used for farming or perhaps to build a factory.</li><li>4. The number (<b>population</b>) and type (<b>demographic</b>) or people that live in a settlement</li></ul>		
	4. The number ( <b>population</b> ) and type ( <b>demographic</b> ) or people that live in a settlement		
	We often see villages grow in size in terms of both the population and number of buildings. This means		
	that villages are becoming more <b>suburbanised</b> . These villages are therefore now quite similar to the		
	outskirts of larger towns		
The	The majority of people in the UK live in urban areas. Many people from other countries have moved to		
benefits and	UK towns and cities because they believe there will be many benefits from living and working in cities.		
problems of	Moving there will improve their <b>quality of life</b> . The table	e below shows the benefits and problems people	
settlement growth	my find in cities.	Ducklama	
growin	- There are more houses or flats to buy	Problems     Traffic causes congestion, accidents,	
	- There are more jobs	noise and air pollution	
	- The jobs are often better paid	- Old roads are too narrows for	
	- Food supplies easily available, with	lorries and buses	
	many shops giving a great choice in food	<ul> <li>New roads and houses take up a lot of land and are often built on</li> </ul>	
	- There are often good public transport links	natural areas that used to provide a habitat for wildlife	
	<ul> <li>There are better services such as shops and hospitals</li> </ul>	<ul> <li>Crime, vandalism and litter sometimes make cities dangerous</li> <li>and uppleasant</li> </ul>	
	- Urban areas often have better leisure facilities where people can enjoy their free time, e.g., concert halls,	<ul> <li>and unpleasant</li> <li>Land is very expensive to buy, in and near the city centre</li> </ul>	
	restaurants, bars etc.		

KEY IDEA	IDENTIFY & KNOW
Land use patterns in urban areas	As a town develops over time, we tend to find a particular pattern that develops. Although no two towns will have exactly the same pattern of land use, most have similar patterns. When a simple map is drawn to show these similarities it can be called an <b>urban model</b> . The diagram below shows a typical pattern that has developed in many UK towns and cities:
	Outer Suburbs
	Inner Suburbs
	Inner City
	Central Business District (town centre)
	This pattern has developed due to two main reasons:
	1. The oldest part of the town is in the middle. As the town grew, larger buildings were built on the edges
	<ol><li>Land in the city centre is expensive to buy. This is because lots of people want to use the land for different things such as shops or restaurants so they compete for it.</li></ol>