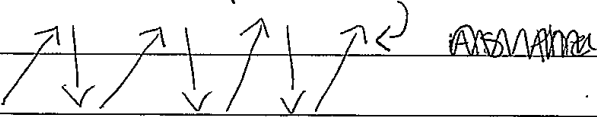


Candidate 1 evidence

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
1a	pyramidal peak = 495541 U-shaped valley = 388 393 Arete = 486514
1b	A sand bar is formed when coastal deposition occurs  when theres a sudden change in direction of the shore, coastal deposition carries on in the same direction distributing sand, making a sand bar.
3	A = River B = A87 C = Forestry.
4	430 490 would be a good area for farming because the land is flat making it easier to work machinery on, it would also be good for farming because theres plenty water supply nearby

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
the soil will be more rich and good for crops. One more reason it would be good for farming is because there's lots of room to expand, space for animals and crops.	

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
5	
Land use conflicts in the Cairngorms (glaciated landscape)	
<p>• (Tourist v farming) Many tourists go to the Cairngorms for a get-away one land use conflict is tourists will walk over farming fields trampling over farmers crops causing farmers to lose out on money. The solution is for tourists to walk around the field; tourists are encouraged to read the Scottish outdoor access code.</p>	
<p>• Another land use conflict is sheep worrying. Tourists let their dogs off lead in fields with sheep allowing the dog to run after the sheep, this puts the sheep in danger. Farmers have the permission to shoot a dog that is putting his sheep in stress, the solution is to keep dogs on lead</p>	

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
near any farm animals.	
• Another conflict is tourists leaving field gates open allowing animals to escape the farm. The solution is farmers will installing automatic gates that automatically shut behind you.	
Another conflict is tourists driving to fast along country • Another conflict is tourists dropping litter in fields allowing farm animals to digest the litter. The solution to this is for farmers to install bins.	
• one last conflict is tourists say wind turbines are eye sores so the solution is to put wind turbines out in sea as there would be stronger winds and harder to see.	

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
6	<p>Glasgow is currently in an anti-cyclone, there is only 5 knots of wind as the isobars are far apart. It is -1°C, it is cold because Glasgow is a high pressure system, that does not help to keep it's cold because it's middle of winter. It is foggy and the sky is obscured.</p>
7	<p>North of Scotland's average temperature is $0.9 - 7.9^{\circ}\text{C}$ this is because it's up in the mountains meaning weather conditions are harsher. The outskirts of Scotland in the south are $8.0^{\circ}\text{C} - 9.3^{\circ}\text{C}$ compared to central that is $0.9^{\circ}\text{C} - 7.9^{\circ}\text{C}$ this is because the outskirts of Scotland are at the sea, bringing the warmth from the ocean.</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN

The South of England is significantly warmer than the rest as it is closer to the equator. $9.7^{\circ}\text{C} - 10.1^{\circ}\text{C}$.

Overall the South of the UK is warmer than the rest as it's closer to the equator and at the lowest height.

So Area x is the inner city. The housing is all close together and look like grids on the map while Area y in the suburbs has cul-de-sacs, housing more spaced apart.

Area x has limited ~~area~~ open space while area y has alot more open space.

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
8b	<p>Derby is a popular area to live in as there are lots of transportation. 356 363.</p> <p>There are many main roads that all lead to the CBD. There are lots of schools and other education centres meaning kids could be fine growing up there. 318 337.</p> <p>There's also a couple hospitals meaning you don't have to travel far for special care. 329 349.</p>
8c	<p>Advantages of building a new hotel in 340 would be there is plenty space for expansion and a lot of room for all the activities and facilities listed.</p>
	<p>A disadvantage is that that area 340 is on a slight hill meaning it's extra work</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN

to build on and will take a lot of time.

Another advantage is that there is easy access as there are roads leading to it.

a. The base of Nigeria's population pyramid is significantly larger than Austria's, this is because Nigeria's birth rate is high, because they are less educated and have little to no access to contraception. Nigeria's infant mortality rate is high so people will often have as many babies as possible.

Austria's top of the pyramid is a lot larger than Nigeria's. Around 0.25% of the population in Austria is aged 95-99 compared to 0 in Nigeria this is because Nigeria's life expectancy

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	is low as they have alot of diseases.
	Austria's pyramid stays relatively the same size going up and Nigeria's gets smaller and smaller. This is because Austria has a better education and health care system where in Nigeria disease and money is a problem.
9b	Diagram Q9B is to show drivers the area is home to alot of elderly people so to be cautious when driving

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
10	<p>A recent change in farming in a developing country is new technology. Tractors have been introduced to developing countries.</p> <p>Advantages are it makes it faster and more efficient to get around the farm and do daily tasks.</p> <p>The disadvantages are it can put farmers in debt as they don't have enough money to pay for them forcing them to take out a loan.</p> <p>Another disadvantage is that it means less people are needed to work causing people to lose their jobs.</p> <p>Another recent change is genetically modified crops.</p> <p>Gm crops have been introduced to developing countries.</p> <p>Advantages are that they</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	<p>have been genetically modified to be able to withstand different weather conditions meaning less yield would die. Another advantage is that they can be modified to help with peoples health. The disadvantages are that they are expensive for farmers to purchase and no one knows the long term health problems they could bring.</p>
1b	Health.
	<p>In 2000 the number of deaths from malaria were significantly higher than the number of cases, there were 260 million deaths and 241 million cases.</p>
	<p>In 2010 there were 250 million deaths and 249 million</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN

Cases.

In 2020 there were around 246 million deaths and 241 million cases.

From the year 2000 to 2020 there was always more deaths from malaria than more cases.

16b Methods to control heart disease.

- Reduce smoking by putting prices up on cigarettes, banning smoking indoors and putting disturbing photos on cigarette boxes.
- Cut down on junk food and increase the amount of exercise.
- get blood levels checked regularly.

Candidate 2 evidence

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
2	
(a) 474384 - waterfall	
445437 - v-shaped valley	
425481 - meander.	
(b)	
• in the Ice Age, glaciers scraped the top soil	
off of the limestone, exposing it to weathering.	
• Rainwater mixes with carbon dioxide	
in the atmosphere to form a weak	
carbonic acid which easily dissolves	
limestone.	
• Since limestone is made from the	
pile-up of dead animals over time,	
it develops ^{horizontal} layers called	
bedding planes and ^{vertical} cracks	
called joints.	
• When the limestone pavement is	
exposed to the weathering, the	
weak carbonic acid dissolves the	
top of the limestone, creating	
cracks called grikes, and blocks	
form called clints.	

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
3	A - river
	B - forestry
	C - A87
4	Recreation and Tourism.
	• This area is suitable for recreation
	and tourism as it has lots of
	places tourists may want to
	visit, like the limestone pavement
	at 492517.
	• it also has a local town at
	479438 that people may like to
	visit
	• There is also a walking trail at
	471448 that walkers may be
	interested in
	Farming
	• This area would be suitable for
	farming as there is a flood plain
	at 457455 that could be used
	for cattle farming since it is
	flat.
	• There is also suitable land for

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	<p>hill sheep farming at 455 495 as the land is steep and sheep are sure-footed.</p> <ul style="list-style-type: none">• Arable farming could be carried out at 455 465 as it is relatively flat and low flood-risk.
5	RIVERS AND VALLEY LANDSCAPES IN GLASGOW
\$	<ul style="list-style-type: none">• Land use conflicts occur between recreation and tourism, and farming as tourists can litter and leave gates open which annoys farmers.• However, farmers can also annoy tourists and walkers by illegally closing footpaths.• Dog walkers and farmers have conflicts as misbehaving dogs can attack and scare sheep, which can cause them to miscarry if pregnant, or kill them.• There can be conflicts within tourism itself as fishermen and whitewater rafters can annoy each other as the noise

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	<p>scares the fish, and the boats could get tangled up in the fishing lines.</p> <ul style="list-style-type: none"> • There can be conflict between water storage and supply and farmers as farmers may spray chemicals into the water which can be expensive to clean up.
6	<p>Glasgow will be experiencing: a temperature of -4°.</p> <ul style="list-style-type: none"> • the sky will be obscured, meaning you cannot see it. • the wind was blowing in a westerly direction with a speed of 5 knots. • There will have been fog. • This will be because it is in the evening in winter.

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
7	<ul style="list-style-type: none">• The altitude of an area can affect the temperature as the higher up a mountain you go, the colder it gets (for 1 km increase in height, there is a 1° drop in temperature.)• Whether or not you are close to a city can affect the temperature as buildings trap wind and more people create more heat.• The distance from the sea can affect the temperature as the sea takes a long time to heat up or cool down, so if in the summer you are closer to the sea, you will be colder, and vice-versa in the winter.• the latitude of the area you are in can affect the temperature as the further away from the equator you go, the colder it gets.• the aspect of a slope that you are on can affect the temperature

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as if you are facing North, you
will be colder than if you are
facing South.

• The Albedo effect could also
affect the UK as areas with
more plant life will absorb the
heat due to the colour and
areas with snow will reflect
the heat due to the colour.

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
8	(a)
<p>• Area X is part of the inner city whereas Area Y is part of the suburbs.</p>	
<p>• Area X has a grid-iron street pattern for its housing whereas Area Y has cul-de-sacs and curved roads to reduce traffic.</p>	
<p>• Area X has multiple churches and areas of worship whereas Area Y only has one place of worship.</p>	
<p>• Area X has easy access to the CBD via main roads, whereas Area Y is further from the CBD meaning people living there would have to travel more.</p>	
<p>• Area Y has a leisure centre whereas Area X does not.</p>	
<p>• Area X has easy access to public transport whereas Area Y does not.</p>	

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
8 (b)	• It is a popular place to live as it is far away from the CBD, meaning it has lower pollution.
	• it does however have easy access to the CBD via a train line at 346 435.
	• there are lots of trails to walk around like 337437 which might be nice for families
	• the roads in the housing area at 344429 are curved which is good because it reduces traffic and is safer for children.
	• there is a nature reserve at 349434 which could be nice to visit.
8 (c)	Advantages
	• there are lots of main roads around it which would give customers easy access to the CBD.
	• there is a nature reserve at 349409 which tourists may like to visit.

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	<ul style="list-style-type: none">• there is a foot-path at 343402 that would allow tourists to go walks.
	<p>Disadvantages</p>
	<ul style="list-style-type: none">• there is forestry at 342405 which would have to be cut down to build the hotel, which is expensive, and bad for the environment.
	<ul style="list-style-type: none">• there is a water tower at 342407 which would be expensive and inconvenient to remove.
	<ul style="list-style-type: none">• the owners of the golf course at 344402 would not be happy with their land being taken up with a hotel.
	<ul style="list-style-type: none">• there is also a lake at 349403 which is a flood risk.

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
9	<p>(a) • Nigeria is a developing country meaning it has a high infant mortality rate, meaning parents have more kids to compensate for this, whereas Austria is a developed country meaning it has a low infant mortality rate, therefore parents do not have to compensate for the potential death of their children.</p> <ul style="list-style-type: none">• the medical industry in Austria is better than the medical industry in Nigeria meaning that in Austria, people live longer than people in Nigeria.• the overall death rate in Nigeria will be higher than the death rate in Austria as it has worse sanitation and less access to clean water.• In Nigeria, there is a higher percentage of children as they may be needed to help provide an income for the family.

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
9	(b) • The world-wide death rate has fallen because of the improvements in medical technology and the overall medical industry, allowing cures for diseases to be found. • There are less infants dying at birth meaning less people die overall. • improvements in the developing world, such as cleaner water supplies, allow people to be healthier. • improvements in areas such as sewage and sanitation in the

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	developing world allows less deaths.
	• improvements in the searches for the cures for diseases causes less people to die from unknown diseases.
10	• a benefit of GM crops to the developing world is that crops can be modified to withstand droughts, reducing overall famine. They can also be modified to contain more of the necessary vitamins required for growth.
	• a disadvantage of GM crops is that people are afraid that a gene could "escape", creating a "super weed". People also think that it is playing God.
	• an advantage to new technology in the developing world is that farmers can get jobs done faster and more efficiently.
	• However, workers are losing their jobs due to being replaced by

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
13	(a) • the number of earthquakes increases
	from 285 to 435 between the
	years 1910 and 1940.
	• between the years 1950 and 1960
	there was a decrease in the
	number of earthquakes from 425
	to 360.
	• between the years 1960 and 1980
	the number of earthquakes
	remained around 360.
	• there was then a spike in the
	number of earthquakes from 360
	to 435 between the years 1980
	and 1990.
	• over the span of the hundred
	years, the number of earthquakes
	has increased.
	(b) Mount St Helens erupted on the
	18 th May 1980 in Washington DC,
	USA.
	• it killed 61 people in total - 57
	instantly, and four from later
	injuries.

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN

- it caused road blockages and wrecked machinery due to the 15cm of ash that fell.
- the top of the mountain was blown 400m lower, due to the scale of its eruption.
- every tree in a 15km radius was flattened due to the force of the blast.
- it killed thousands of animals that lived in the forests surrounding it.
- the lahar that fell down the north side of the volcano displaced all the water in Spirit Lake, causing flooding.
- the salmon hatcheries in the surrounding rivers were destroyed.

Candidate 3 evidence

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
1a.	Pyramidal peak = 495541
	U-shaped valley = 388393
	Arête = 486814.
b	
first position of pebble	
	<p>Longshore drift moves material along the coast in a zigzag fashion. When this material reaches a break or change in the coastline such as a bay, it will deposit this material over a long period of time until it is above sea level. The material will then extend out to sea to form a sand spit. If this material reaches the other side of the break/change it becomes a sand bar. Behind the spit and bar, a salt marsh will form as it is more sheltered.</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
3	C = A87 B = forestry A = River
4.	<p>For tourists there is a campsite and caravan park at 490480 where they can stay. There is the road A855 so they can access the area. There is an area of forestry at 3945 where they can do orienteering. On Loch Leathan they can do water sports and fishing. There is an area of cliff at 4825 483512 where they can do rock climbing and abseiling. For renewable energy, you can could put wind turbines at 477489 because it is very high up at 497 m above sea level so it will be very windy so they can generate lots of energy. It is also near a main road, the A855 so it's easy to access for the workers. It is far away from any towns.</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	or villages so it won't disturb the locals.
5	<p>In the Cairngorms conflicts occur between farmers and tourists. Tourists take short cuts over farmers walls damaging them and the farmer farmer has to take time to fix it. Tourists let their dogs off the leashes and the dogs can scare the pregnant sheep causing a miscarriage so the farmer loses money. Tourists leave farmers gates open and animals can escape and possibly get run over so farmers need to search for them and maybe have to pay vet bills. Tourist drop litter which the animals can choke on so the farmer has to pay vet bills. Tourists feed the animals which can make them sick so farmer has to pay vet bills. Farmers have the legal right to shoot dogs if they trespass which annoys and upsets the tourists.</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN	
	<p>Tourists cause footpath erosion on farmers land scarring the scenery. Farmers can restrict access to tourists which annoys them. Tourist can also trample on farmer crops and and destroy them so farmer loses money.</p>	
6.	<p>Glasgow is experiencing calm winds, at 10 knots because the isobars are very far apart. It is very cold at -4° because is it is always cold in high pressure. It is so very foggy because of how much cloud cover there is, the sky is obscured, this is because the cold air is pushing the warm air up very quickly. There is a. The wind direction is from the west because in high pressure the, air travels clockwise.</p>	

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
7.	<p>Factors affecting average UK temperatures are: Altitude, this is was when places high above sea levels are colder. For every 100m you go up the temperature drops by 1°. It is also windier in places like mountains because making it seem colder. This is called the wind chill factor.</p> <p>Latitude: This is is when places the south of England is warmer than the north of Scotland because they are closer to the equator. At the equator the sun's rays are much more concentrated. Also in the north of Scotland there is a lot of snow to because it is closer to the north pole and and snow is white so it reflects heat. Aspect of a slope is when south facing slopes are warmer than north facing slopes because they receive more hours of sunshine during the day. Urban heat island is when cities are warmer than the countryside because</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN

they have ^{more} things like cars and buildings which give off heat.

Ex. Area x is the inner city and area y is the suburbs. Area x has a grid iron street pattern ~~like~~ ~~are~~ while area y has crescents and cul-de-sacs. There is ~~some~~ lots open space in area y but not much in area x. Area ~~x~~ x has more old churches than area y. The land at area y will be cheaper than area x because it is on the edge of the city. There is some greenery in area y but no greenery at all in area x. Area x is closer to the CBD than area y. There is part of a main road going through area x when area y has no main roads leading through it at all.

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
b	

b It is on the edge of the ~~CPBD~~ ^{city} so land is very cheap. The main road, the A61 leads through it going to the CPBD so they have good access to the CPBD. There is a nature reserve at 349433 for families to go visit. There is a train station at 346436 for more access to the CPBD. There is a school at 343434 where parents can send their children. There is a walking trail leading through Duffield at 345435 where people can go outside and get fresh air. There is a ~~for~~ road from Duffield leading to Kedleston park in 3140 where people can be out in nature and take their families.

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	isn't completely flat which might make it difficult to build on.
8	
9a	<p>The base of Nigerian pyramid is wider than Australia. This is because it has a higher ^{higher} birth rate. This is due to the lack of contraceptives such as the condom and pill. Children are need to work on farms, ^{they are} known as an economic asset. They can also take care of their parents when they are older and don't have a pension.</p> <p>Australia base is lower ^{narrower} than Nigeria because it has a lower birth rate. This is because of the emancipation of woman who want to focus more on their careers rather than have children. People are more materialistic so would rather</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
b.	

have a fancy car or house than have children. Nigerias apex is ~~more~~ narrower than Austrias because it has a higher death rate due to a lack of sanitation e.g toilets causing spread of disease such as cholera. It also has a lack of clean drinking water so further spread of disease. Overcrowding cause disease to spread quicker. Austria has a wider apex and a lower death rate. This is due to better healthcare like hospitals and doctors. There is also a better food supply so people are stronger and healthier.

b. Better food supply means people are stronger and healthier. Better sanitation such as toilets means disease spreads less. Better supply of access to clean drinking water means less disease like cholera spreads. Improved healthcare such as hospitals and doctors, invention of vaccinations that protect us from

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	<p>disease such as tuberculosis polio</p> <p>and Better road conditions and railways means doctors can travel to all around the country and its safer for drivers. New medical discoveries and medicines and inventions like organ transplants and medicines that can help illnesses such as malaria and HIV.</p>
10.	<p>My first choice is a new technology. Machinery is more efficient than workers. meaning the farmer. This means the farmer saves money on wages. This means crops can be harvested quicker. This means they get to the market quicker and are fresher so they can be sold at higher prices. This extra money can be used for</p>

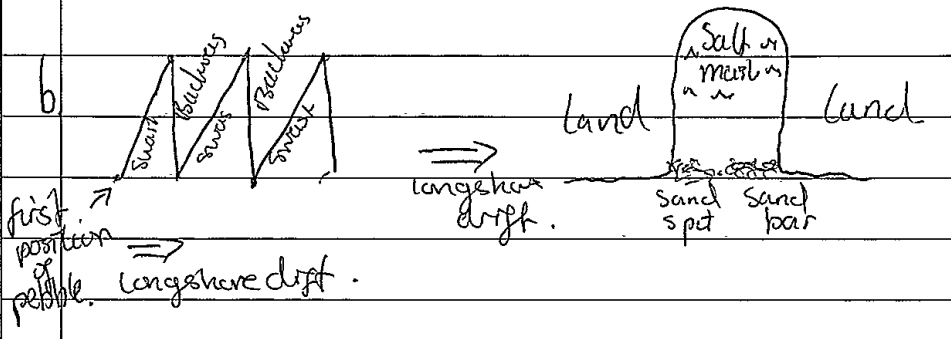
ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	<p>send their kids to school and buying better seeds. Machines Workers lose their jobs as machines take over them. This causes people to move to the city and creating shanty towns. They also bring lots of air and noise pollution to the countryside. You have you cut down hedges so the machine can turn better, which destroys animals habitats. This also leaves the top soil vulnerable to soil wind erosion. My second choice is GM crops. GM crops - means there is a bigger yield per plant so more harvests per year. This means there is more food for farmer families but they can also sell this to earn more money. This extra money can be used for sending kids to school and buying medicine etc. They are pres breed to be resistant to disease so the farmer has a more reliable harvest. For example potatoes</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	<p>They can have added best nutritional benefits for example, golden rice has added vitamin A to prevent night blindness. GM crops are very expensive so because you need to buy more each year. Poorer farmers may not be able to afford them are or could go into debt after losing their land. Lots of farmers have committed suicide due to this.</p>
<p>415 - 295 ----- 120</p> <p>370 370 370</p>	<p>11a. The general trend in atmosphere CO₂ is to increase greatly with some fluctuations. In 1900 the atmosphere CO₂ was roughly 295 parts per million and increases greatly by 20 parts per million over 120 years, until it was 415 parts per million in 2020. In 1900, the the CO₂ was emissions was roughly 27²⁵ giga tons and increase had a massive increase of 3 32.5 giga tons where in 20 2020 it was 35 giga tons.</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	<p>From 1950 - 1980 there was a huge increase of 15 trillion gigatons in CO₂ emissions. The general trend of the CO₂ emissions from 1900 - 2020 is to increase but it has a lot of fluctuations in between.</p>
b.	<p>The Paris climate agreement scheme was when all the countries in the world came together and agreed to to let the world temperature to rise by 2°C. Planting more trees would mean they could take the carbon dioxide in from the atmosphere and there would be less in the atmosphere. Using roll on deodorant instead of a spray because they don't produce CFC's. Eat less meat so there is less methane.</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
<p>cars to produce methane. Recycle rubbish so less goes to rubbish dumps so there is less methane in the atmosphere. Use electric cars which don't burn fossil fuels so less greenhouse gases in the atmosphere. Switch off appliances like lights and the tv so there aren't more fossil fuels being burned, reducing amount of greenhouse gases in the atmosphere. Car sharing so there are less cars on the road to produce carbon dioxide. Using renewable energy like wind or solar because they don't produce any greenhouse gases.</p>	

Candidate 4 evidence

ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
1a.	Pyramidal peak = 495541	
	U-shaped valley = 388393	
	Arête = 486914.	
b	 <p>longshore drift.</p> <p>land Salt marsh land</p> <p>Sand spit Sand bar</p> <p>first position of pebble. longshore drift.</p>	
	<p>Longshore drift moves material along the coast in a zigzag fashion. When this material reaches a break or change in the coastline such as a bay, it will deposit this material over a long period of time until it is above sea level. The material will then extend out to sea to form a sand spit. If this material reaches the other side of the break/change it becomes a sand bar. Behind the spit and bar, a salt marsh will form as it is more sheltered.</p>	

ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
3	C = A87	
	B = forestry	
	A = River	
4.	<p>For tourists there is a campsite and caravan park at 490480 where they can stay. There is the road A855 so they can access the area. There is an area of forestry at 3945 where they can do orienteering. On Loch Leathan they can do water sports and fishing. There is an area of cliff at 4825 483512 where they can do rock climbing and abseiling. For renewable energy, you could put wind turbines at 477489 because it is very high up at 497 m above sea level so it will be very windy so they can generate lots of energy. It is also near a main road, the A855 so it's easy to access for the workers. It is far away from any towns.</p>	

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	or villages so it won't disturb the locals.
5	<p>In the Cairngorms conflicts occur between farmers and tourists. Tourists take short cuts over farmers walls damaging them and the farmer farmer has to take time to fix it. Tourists let their dogs off the leashes and the dogs can scare the pregnant sheep causing a miscarriage so the farmer loses money. Tourists leave farmers gates open and animals can escape and possibly get run over so farmers need to search for them and maybe have to pay vet bills. Tourists drop litter which the animals can choke on so the farmer has to pay vet bills. Tourists feed the animals which can make them sick so farmer has to pay vet bills. Farmers have the legal right to shoot dogs if they trespass which annoys and upsets the tourists.</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	<p>Tourists cause footpath erosion on farmers land scarring the scenery. Farmers can restrict access to footpaths which annoys them. Tourist can also trample on farmer crops and the and destroy them so farmer loses money.</p>
6.	<p>Glasgow is experiencing calm winds, at 10 knots because the isobars are very far apart. It is very cold at -4° because is it is always cold in high pressure. It is is very foggy because of how much cloud cover there is, the sky is obscured, this is because the cold air is pushing the warm air up very quickly. There is a The wind direction is from the west because in high pressure is, air travels clockwise.</p>

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7.	<p>Factors affecting average UK temperatures are: Altitude, this is was when places high above sea levels are colder. For every 100m you go up the temperature drops by 1°. It is also windier in places like mountains because making it seem colder. This is called the wind chill factor.</p> <p>Latitude: This is is when places the south of England is warmer than the north of Scotland because they are closer to the equator. At the equator the sun's rays are much more concentrated. Also in the north of Scotland there is a lot of snow to because it is closer to the north pole and and snow is white so it reflects heat. Aspect of a slope is when south facing slopes are warmer than north facing slopes because they receive more hours of sunshine during the day. Urban heat island is when cities are warmer than the countryside because</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN

they have ^{more} things like cars and buildings which give off heat.

Ex. Area x is the inner city and area y is the suburbs. Area x has a grid iron street pattern ~~like~~ ~~are~~ while area y has crescents and cul-de-sacs. There is ~~some~~ lots open space in area y but not much in area x. Area ~~x~~ x has more old churches than area y. The land at area y will be cheaper than area x because it is on the edge of the city. There is some greenery in area y but no greenery at all in area x. Area x is closer to the CBD than area y. There is part of a main road going through area x when area y has no main roads leading through it at all.

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b	city.

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c. ~~The land is~~ It's on the edge of Derby so lots of people will come to stay and you can get workers from there too. There is a main road to the east at 35 & 405 for tourists and workers to access it. There is room to expand ~~the~~ to the south for a bigger car park. There is a small lake at 34 3403 which could flood and damage the hotel. There is a ~~lot~~ lots of trees in the area especially to the west at ~~34 3404~~ 34 2406 which you would have to cut down, destroying animals habitats and destroying the greenbelt. It might also take a long time to get planning permission. There is a golf club to the south at ~~34~~ 34 4402 which would give the tourists leisure activities. The land

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isn't completely flat which might make it difficult to build on.

9a. The base of Nigerian pyramid is wider than Australia. This is because it has a ~~higher~~ ^{higher} birth rate. This is due to the lack of contraceptives such as the condom and pill. Children are need to work on farms, ^{they are} known as an economic asset. They can also take care of their parents when they are older and don't have a pension. Australia base is ~~lower~~ ^{narrower} than Nigeria because it has a lower birth rate. This is because of the emancipation of woman who want to focus more on their careers rather than have children. People are more materialistic so would rather

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	<p>have a fancy car or house than have children. Nigerias apex is more narrower than Austrias because it has a higher death rate due to a lack of sanitation e.g toilets causing spread of disease such as cholera. It also has a lack of clean drinking water so further spread of disease. Overcrowding cause disease to spread quicker. Austria has a wider apex and a lower death rate. This is due to better healthcare like hospitals and doctors. There is also a better food supply so people are stronger and healthier.</p>
b.	<p>Better food supply means people are stronger and healthier. Better sanitation such as toilets means disease spreads less. Better supply of access to clean drinking water means less disease like cholera spreads. Improved healthcare such as hospitals and doctors, invention of vaccinations that protect us from</p>

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	<p>disease such as the polio and Better road conditions and railways means doctors can travel to the all around the country and its safer for drivers. New medical discoveries and medicines and inventions like organ transplants and medicines that can help illnesses such as malaria and HIV.</p>
10.	<p>My first choice is a new technology. Machinery is more efficient than workers. meaning the farmer. This means the farmer saves money on wages. This means crops can be harvested quicker. This means they get to the market quicker and are fresher so they can be sold at higher prices. This extra money can be used for</p>

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	<p>send their kids to school and buying better seeds. Machines Workers lose their jobs as machines take over them. This causes people to move to the city and creating shanty towns. They also bring lots of air and noise pollution to the countryside. You have you cut down hedges so the machine can turn better, which destroys animals habitats. This also leaves the top soil vulnerable to soil wind erosion. My second choice is G/T crops. G/T crops - means there is a bigger yield per plant so more harvests per year. This means there is more food for farmer families but they can also sell this to earn more money. This extra money can be used for sending kids to school and buying medicine etc. They are press breed to be resistant to disease so the farmer has a more reliable harvest. For example potatoes</p>

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	<p>They can have added best nutritional benefits for example, golden rice has added vitamin A to prevent night blindness. GM crops are very expensive so because you need to buy more each year. Poorer farmers may not be able to afford them are or could go into debt after losing their land. Lots of farmers have committed suicide due to this.</p>
<p>415 - 295 ----- 120</p> <p>32.5 32.5 32.5</p>	<p>11a. The general trend in atmosphere CO₂ is to increase greatly with some fluctuations. In 1900 the atmosphere CO₂ was roughly 295 parts per million and increases greatly by 20 parts per million over 120 years, until it was 415 parts per million in 2020. In 1900, the the CO₂ was emissions was roughly 27.5^{22.5} gigatons and increase had a massive increase of 3 32.5 gigatons where in 2020 2020 it was 35 gigatons.</p>

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	<p>From 1950 - 1980 there was a huge increase of 15 trillion gigatons in CO₂ emissions. The general trend of the CO₂ emissions from 1900 - 2020 is to increase but it has a lot of fluctuations in between.</p>
	<p>b. The Paris climate agreement scheme was when all the countries in the world came together and agreed to let the world temperature rise rise by 2°C. Planting more trees would mean they could take the carbon dioxide in from the atmosphere and there would be less in the atmosphere. Using roll on deodorant instead of a spray because they don't produce CFC's but less meat so there is less methane.</p>

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<p>cars to produce methane. Recycle rubbish so less goes to rubbish dumps so there is less methane in the atmosphere. Use electric cars which don't burn fossil fuels so less greenhouse gases in the atmosphere. Switch off appliances like lights and the tv so there aren't more fossil fuels being burned, reducing amount of greenhouse gases in the atmosphere. Car sharing so there are less cars on the road to produce carbon dioxide. Using renewable energy like wind or solar because they don't produce any greenhouse gases.</p>	

a)