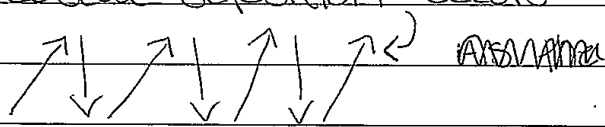


Candidate 1 evidence

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 costal deposition occurs  when theres a sudden change in direction of the shore, costal 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
	<p>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.</p>	
	<p>443 423 would be a suitable place for forestry because the land is steep meaning there's not many other uses for it. The soil would be not good for crops so planting trees would be better as trees don't need rich soil to grow. One more reason is that the area is high meaning weather conditions would be significantly worse, things like crops wouldn't survive but trees are strong and can withstand the harsh weather conditions.</p>	

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
5	

Land use conflicts in the Cairngorms (glaciated landscape)

- (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.
- 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

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 installing automatic gates that automatically shut behind you.	
	* Another conflict is tourists driving too fast along country roads. 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	

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 in a high pressure system, that is why it is cold~~ it's cold because it's middle of winter. It is foggy and the sky is obscured.

7 North of Scotland's average temperature is 0.9°C - 7.9°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°C - 9.3°C compared to central that is 0.9°C - 7.9°C this is because the outskirts of Scotland are at the sea, bringing the warmth from the ocean.

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 34-40 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 34-40 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.	
	9. 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.
	Austrias pyramid stays relatively the same size going up and Nigerias 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	

ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
	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 people's health.	
	The disadvantages are that they are expensive for farmers to purchase and no one knows the long term health problems they could bring.	
	1b) Health.	
	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.	
	In 2010 there were 250 million deaths and 244 million	

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	<p>Cases.</p>
	<p>In 2020 there were around 246 million deaths and 241 million cases.</p>
	<p>From the year 2000 to 2020 there was always more deaths from malaria than more cases.</p>
16b	<p>Methods to control heart disease.</p>
	<ul style="list-style-type: none">• Reduce Smoking by putting prices up on cigarettes, banning smoking indoors and putting disturbing photos on cigarette boxes.
	<ul style="list-style-type: none">• Cut down on junk food and increase the amount of exercise.
	<ul style="list-style-type: none">• 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. R
	• 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.	
	<ul style="list-style-type: none"> 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	
	<ul style="list-style-type: none"> 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
	hill sheep farming at 455 495
	as the land is steep and sheep
	are sure-footed.
	• 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
\$	• 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
	scared the fish, and the boats could get tangled up in the fishing lines.	
	• 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	• Glasgow will be experiencing a temperature of -4° .	
	• 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

[illegible]

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 337 437 which might be nice for families	
• the roads in the housing area at 344 429 are curved which is good because it reduces traffic and is safer for children.	
• there is a nature reserve at 349 434 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 349 409 which tourists may like to visit.	

ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
	• there is a foot-path at 343402 that would allow tourists to go walks.	
	Disadvantages	
	• there is forestry at 342405 which would have to be cut down to build the hotel, which is expensive, and bad for the environment.	
	• there is a water tower at 342407 which would be expensive and inconvenient to remove.	
	• the owners of the golf course at 344402 would not be happy with their land being taken up with a hotel.	
	• there is also a lake at 349403 which is a flood risk.	

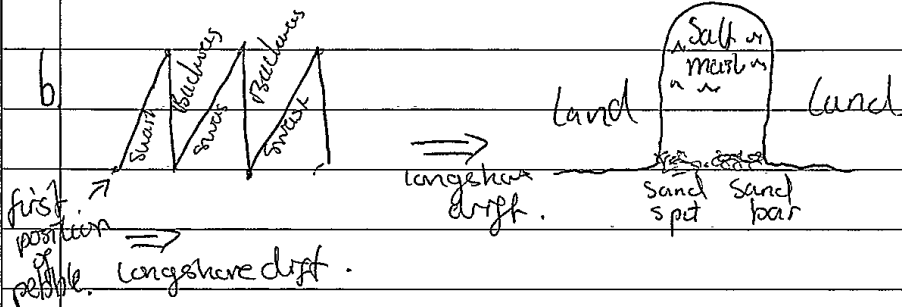
ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
9	<p>(a) • Nigeria is a developing country meaning it has a high infant mortality rate, meaning parents have more kids to compensate for this, whereas Austria is a developed country meaning it has a low infant mortality rate, therefore parents do not have to compensate for the potential death of their children.</p> <p>• the medical industry in Austria is better than the medical industry in Nigeria meaning that in Austria, people live longer than people in Nigeria.</p> <p>• 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.</p> <p>• In Nigeria, there is a higher percentage of children as they may be needed to help provide an income for the family.</p>

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.

Candidate 3 evidence

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
1a.	Pyramidal peak = 495541 U-shaped valley = 388393 Arête = 486814.
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	$C = A87$ $B = \text{forestry}$ $A = \text{River}$	
4	<p>For tourists there is a campsite and Bareuan 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 per 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 its 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 has to 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
7.	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. 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

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 ~~34 406~~ 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

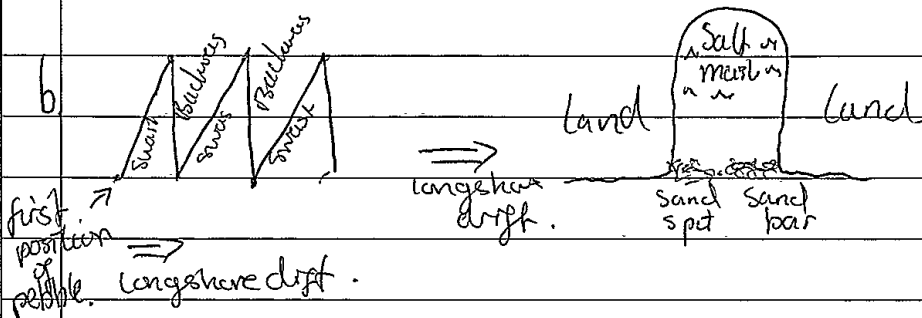
ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
	isn't completely flat which might make it difficult to build on.	
9a.	<p>The base of Nigerian pyramid is wider than Australia. This is because it has a bigger birth rate higher birth rate. This is due to the lack of contraceptives such as the condom 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 because narrower has than Nigerian because it has a lower birth rate. This is because of the emancipation of women who want to focus more on their careers rather than have children. People are more materialistic so would rather</p>	

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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 causes 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>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	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're pres breed to be resistant to disease so the farmer has a more reliable harvest. For example potatoes

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
	<p>They can have added bad 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>2415 - 295 ----- 2120</p> <p>2415 295 ----- 2120</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 per emissions was roughly 270 ²⁵ 295 giga tons and increase had a massive increase of 3 32.5 giga tons where in 200 2020 it was 35 giga tons.</p>

Candidate 4 evidence

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1a.	<p>Pyramidal peak = 495541</p> <p>U-shaped valley = 388393</p> <p>Arête = 486814.</p>	
b	 <p>first position of pebble. longshore drift.</p> <p>longshore drift.</p> <p>Land salt marsh Land</p> <p>sand spit sand bar</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>	

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	B = forestry
	A = River
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	or villages so it won't disturb the locals.
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9a.	<p>The base of Nigerian pyramid is wider than Australia. This is because it has a bigger birth rate 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 because narrower has than Nigerian because it has a lower birth rate. This is because of the emancipation of women who want to focus more on their careers rather than have children. People are more materialistic so would rather</p>	

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