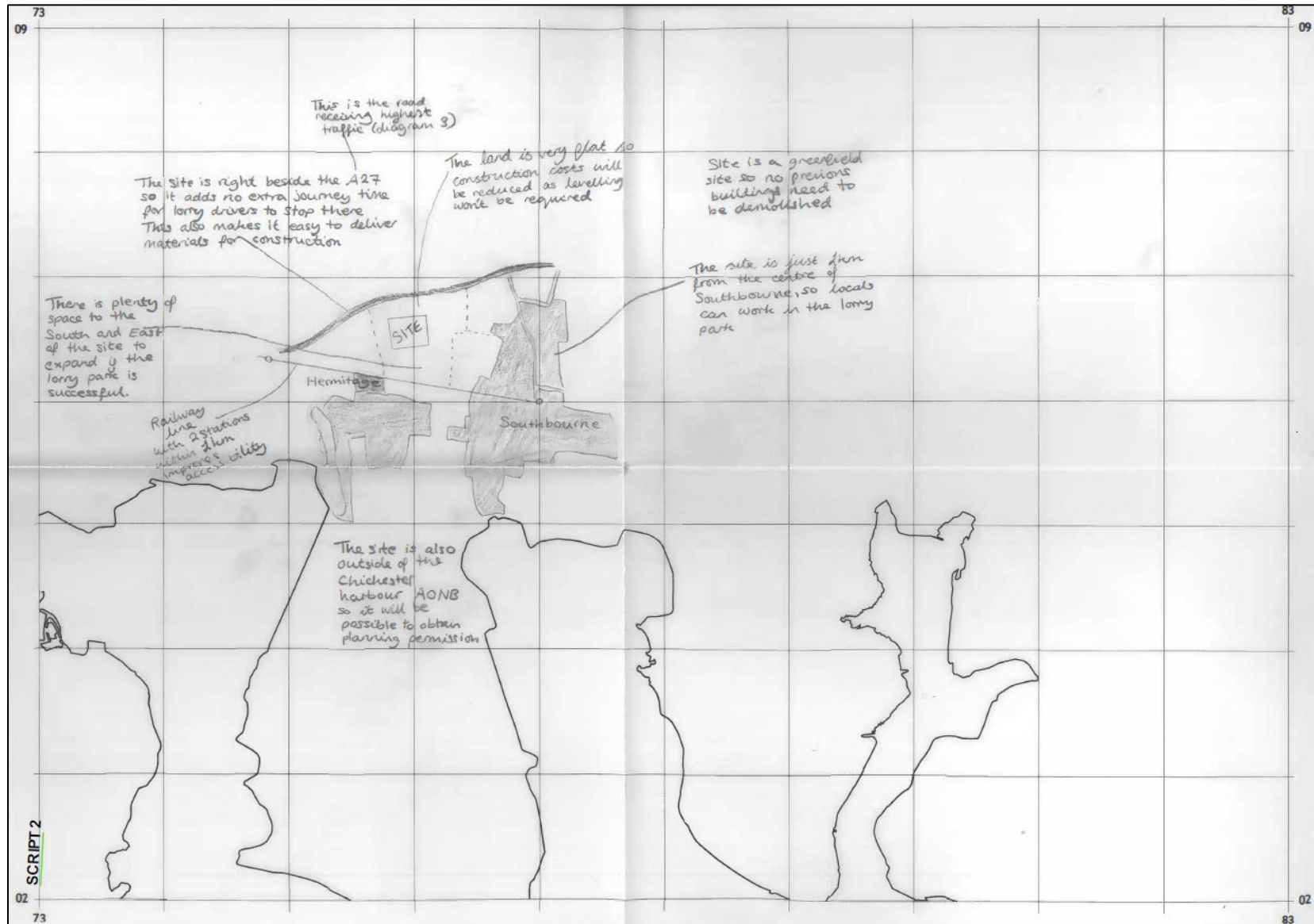


Candidate evidence



ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
1	<p>(b) (ii) There are a number of footpaths around the site to the East and West (marked by dotted lines on tracing overlay). These may see a decrease in use since noise, air pollution and visual eyesores caused by the development may make locals use other roads^{paths} such as in GR(775,067). Fewer places to walk or run may have a negative effect on people's mental and physical health.</p> <p>Diagram 3 shows that the A27 already receives the highest volume of traffic (78'000 vehicles on average per day in January 2023) so so this development could increase actually increase traffic congestion as more lorry drivers will choose the A27 over alternative routes.</p>	

ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
1	<p>(b)(ii) continued)</p> <p>The area is a greenfield site so development will lead to loss of biodiversity such as plants, mosses, hedgerows and insects.</p> <p>The The lorry park will be open all night so noise pollution could disturb residents of Lumbley Croft (GR(756, 066) particularly if they have young children.</p> <p>Increased a quantity of impermeable concrete surfaces may increase surface water run-off causing a to higher risk of flooding during heavy rainfall. This could damage the development as well as nearby houses, leading to expensive repairs.*</p> <p>Motels eg. GR(742, 065) may have a decreased number of customers as drivers are stopping at the new lorry park. This could negatively impact the economic stability of certain some people in the local community.</p> <p>* The atlas identifies this area as one of the areas at greatest risk from flooding (as designated by the Environment Agency)</p>	

ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
1	<p>(iii) Trees or wildflower meadows could be planted around the park to combat loss of biodiversity. This would also make the area a more pleasant place to visit and shield the park from walkers using footpaths nearby or locals who find the development unsightly. To minimise congestion on the A27, a similar lorry park could be built on an alternative route, eg such as the A259 which would spread the traffic over both roads.</p> <p>A high capacity drainage system could be implemented to minimise surface water flooding, as this could feed into the harbour at GR GR(752,054)</p> <p>If the side of the site with the lorry parking (Right side of Diagram 1) is and a high, thick hedge was constructed between this and Lunley Croft, then any noise would be dampened and less likely to disturb residents.</p> <p>Motels such as GR(742,065) could open an adventure high-ropes course in the area of land to the west North-West which would attract many more customers as families will want to visit.</p>	

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
1	
<p>(c) 2 2 people stand on a bridge overlooking a main road (for example GR(789,070)) each facing opposite directions. Each person counts the number of vehicles which pass under the bridge in a set amount of time. If the road is particularly fast or busy, there could be one person counting for each lane of traffic. Note down using tally marks on a recording sheet. It might be good, if possible, to categorise the vehicles to find the number of lorries, cars, vans etc, however this makes it more difficult to collect data.</p> <p>If If the weather is very poor, surveyors could get very cold and wet, causing discomfort. Thick fog could obscure visibility of the road, making it very difficult to count vehicles passing under the bridge.</p> <p>This technique is very time-consuming and will need to ^{be} repeated at various times over multiple days or weeks, which could cause the surveyors to get bored, and will be ^{expensive for} the employer.</p> <p>If there is heavy congestion and vehicles are are moving very slowly it may be hard to remember which vehicles have been counted,</p>	

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
1	(c) continued making the results less accurate.
1	(d) Proportional symbols would be a good way of demonstrating differences in volume of traffic on the main roads. They allow the reader to quickly interpret magnitude since there is an immediate visual impression. However most readers will underestimate differences in area of the symbols. A scale must be carefully chosen so that the smallest symbol is big enough to see but the largest doesn't obscure the map a large section of the map. There may be clustering of symbols near Chichester which could overlap, making it difficult to interpret or see the locations behind. The base map should be kept as sg simple as possible to avoid confusion, however that some readers may think the blank space has no roads. Proportional symbol maps are very time-consuming to construct as the symbols area must be accurately calculated.

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
1	<p>(e) This area has a large, sheltered harbour with lots of marsh, reeds or salttings. This provides a unique habitat for many marine birds, eg or fish as well as grasses, eg. GR(742,013) Long beaches such as GR(789,970) provide attract tourists to relax on the beach, particularly in warmer weather. It also benefits provides opportunities for watersports, for example sailing, kayaking, windsurfing or paddleboarding. eg. GR(765,983). The atlas shows this area has an average surface temperature of 16-17°C, one of the warmest in the UK, making it perfect for beach holidays. perfect</p> <p>The land is generally very flat, which allows deep fertile soils for a variety of plant species, and is ideal for recreational golf courses such as in GR(695,992)</p> <p>The main soil type is Gley and the natural vegetation Beech and Oak, which are native trees so likely to support a range of important native species. Trees are important for biodiversity as they allow survival of certain insects, fungi, or lichens.</p> <p>The beach is south-facing, so will receive</p>

ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
1	(e) continued direct mid-day sun. The flat land allows	
	space for opportunities for many campsites such	
	as in GR(792,976)	

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2a1	<p>The triangle graph shows that in Australia in 1980, the population of 15-64 year olds was 65% which shows it was over half of the population.</p> <p>The triangle graph showed that in 1980 Bangladesh had a population of mainly 0-14 year olds with it being around 45% however they only had a population of about 3% over 65 year olds.</p> <p>It showed that Luxembourg had the smallest population of 0-14 year olds with around 17% whereas they had the largest population of over 65 year olds at around 15% compared to Qatar at only 2% of 65+ year olds.</p> <p>It is clear on the graph that Ireland had a population of around 42% 0-14 year olds and around 46% of 15-64 year olds.</p>	

ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
11	<p>A reason for Bangladesh having a population of around 45% of 0-14 year olds is due to them being an LDC. As they are less developed they have less access to healthcare such as birth control meaning a higher birth rate. Another reason could be due to their lack of healthcare for newborn babies so they may have multiple children in hope that a few stay alive, due to the death rate of babies being high. One reason for their 3% of 65+ is that due to their lack of healthcare available and lack of fresh water, this means older people could die of water related diseases or due to no medication for their illnesses. This resulting in a low percent of old people.</p> <p>A reason for the 65% of 15-64 year olds in Australia in 1980 shows a working population of healthy adults. As Australia is a MEDC, this means they have</p>	

ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
	access to good doctors and healthcare	
	to keep them healthy and alive.	
	it is clear that Luxembourg has	
	the highest percent of 65+ with	
	15%, this shows they are an	
	ageing population. It shows that	
	due to the healthcare and	
	education available they have	
	a high life expectancy, it is seen	
	in the Atlas page 152 that in 2010	
	Luxembourg's life expectancy was 80 years	
	old compared to Bangladesh which was	
	66 showing Luxembourg even in	
	2010 was still topping them.	

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111	A triangular graph is effective	
	when comparing 3 components.	
	They are useful for coping with	
	large values.	
	However, they can be very hard to	
	understand if not explained how to.	
	Another disadvantage is that zero ^{it}	
	it can only deal with	
	cannot be plotted on percentages.	
	Another disadvantage is that it is	
	very easy to make mistakes while	
	plotting data, causing inaccuracy.	
	Another disadvantage is that	
	only 3 components can be plotted	
	and no more.	
	b A statistical technique which	
	could be suitable for testing the	
	relationships between a country's	
	changing population and its	
	development is Spearman's rank	
	correlation.	
	Spearman's Rank (SRC) is suitable	
	for testing how strong the	
	relationship between two variables	

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15.	
It is also useful as it is a lot	
easier to understand than Pearsons	
Product Correlation Coefficient so	
it minimises human error.	
Another advantage is that it shows	
the relationship between the variables	
and tells us if they are positive	
or negative.	
A disadvantage is that it doesn't	
tell us the full range as the	
result only consists of one number.	
Another disadvantage is that it ranks	
the data, this makes the result less	
reliable.	
C. In Australia it shows the % of	
people from 0-64 all decreasing. This	
may impact the working population	
and result in worker shortages.	
In China the diagram 3 shows that	
the % of over 65s will increase	
by around 24%. This will result in	
China requiring more facilities for	

ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
	<p>the elderly population such as increasing the number of carehomes available to citizens to ensure there are enough. By doing this sooner it will prevent a carehome crisis in 2060.</p>	
	<p>It is seen that in Peru the percentage of 0-14 year olds will decrease from 25-17%. This may be bad for nurseries and schools and could cause closures for them, meaning a higher unemployment rate as a result.</p>	
	<p>It is seen in Ireland that the population of over 65s will increase from 15% to 27%. This may result in the retirement age increasing. This may be bad for the younger people who are trying to get a job and may cause a crisis for young people as many businesses are likely to choose old experienced people over inexperienced young people.</p>	
	<p>It is seen in Bangladesh that the</p>	

ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
	percentage of 15-64 year olds will	
	decrease by 5% this may result in	
	less adults working in factories for	
	global trade such as clothing factories.	
	It is seen on page 151 in the atlas that	
	Bangladesh make \$93 million USD per capita	
	through exports in 2009. This	
	shows a great deal of their income	
	comes from this which means if there	
	was a shortage of workers it would	
	impact the countries income.	