

Candidate 3 evidence

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2.)	<p>a) An impact of Malaria on people is that the disease can kill people as there is currently no vaccination or cure. People will be impacted as the disease may affect them themselves or family members. Malaria will impact the economy as less people will be able to work as those who have contracted the disease won't be strong enough and those who haven't got malaria will be responsible for looking after the diseased. Another impact the economy will have is that foreign investors and tourists won't want to come to a country/ area where malaria is present as they won't want to risk themselves contracting it or businesses to lose out if they invest.</p>

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	<p>environmentally friendly insecticides as they are petrol-based. This can be effective however insecticides can be expensive so poorer countries can't afford them. Malaria prevention drugs such as Chloroquine have been developed as prevention is better than the cure. Unfortunately they mosquitoes built up a resistance to the drugs and many people didn't like the side effects of taking them.</p> <p>Spraying oil or egg whites on stagnant water or breeding grounds was another method which was used to suffocate and drown the larvae. This method was effective although many countries didn't have access to oil and eggs, and those who do view it as a valuable food source. Planting eucalyptus trees around breeding grounds help to drain the water as the roots would absorb the</p>	

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water, however the trees provided shade which mosquitoes need to survive so this method was less effective. Genetic engineering to create a pool of sterile males to reduce the mosquito population was another technique. This proved to be too expensive and many people felt genetic engineering was morally wrong.

3.) a) A physical factor that contributes to global climate change is the Earth's elliptical orbit and its tilt. The changes of the Earth's tilt mean that at certain times of the year certain areas are closer to the sun therefore have greater amounts of radiation and energy being sent to the Earth from the Sun. Similarly the Earth's elliptical orbit means that different areas

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of the Earth are exposed to greater amounts of the sun's energy therefore causing global temperatures to rise. Another physical cause is ocean currents. This is due to the oceans period warming - El Niño, and periodic cooling - La Niña, which influence global temperatures. Sun spot activity cycles are another physical contributor to climate change. ~~As they~~ Sun spots are dark spots that appear on the sun when there is an increase in energy. Therefore more spots means more energy being sent out which influences global temperatures. Volcanic eruptions are another physical factor ~~as~~ ^{and gases} they let out huge amounts of ash ^{into} the atmosphere. ~~When the ash~~ ~~cools~~ When the greenhouse gas Sulphur dioxide combines with water it creates sulfuric acid droplets known as.

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aerosols. These heat up themselves and the surrounding atmosphere, therefore adding to the global temperatures.

b) There are Local, National and Global strategies for managing climate change. A local strategy is reduce, reuse recycle schemes which most local authorities/councils encourage. This reduces the amount being sent off to landfill sites and reduces the amount of fossil fuels used for the manufacture and disposal of goods. Food and garden waste can be turned into compost to prevent it from going to landfill. Using energy saving products is another local strategy. Swapping normal light bulbs for energy saving ones could save up to £3 a year on electricity and it's a very effective method as they last 10-15 times longer than regular light bulbs.

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Another local strategy to manage climate change is using water efficiently. This means turning off water whilst doing your teeth, only putting full dishwashers on and repairing leaky taps as soon as possible.

Our water is cleaned using various chemicals before it is pumped into our homes so the less we use, the better for the environment.

A National strategy is the 5p charge on plastic bags. This is a very successful strategy as it has reduced the greenhouse gas emissions from creating them by 90% and there are now 12 billion fewer plastic carrier bags in circulation. Another national strategy is tax on gas guzzlers. Cars that emit very low levels of CO_2 will pay no road tax. This is to discourage people from buying cars that emit more CO_2 into the atmosphere as people don't want to

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pay extra in road tax. A Global strategy used to manage climate change was the Kyoto Protocol. This was an agreement that meant the countries involved would reduce their emissions by 2012 using a carbon credit scheme. This was fairly successful however it wasn't very fair and there was no specific goal. Another global strategy was the Paris Agreement which was a legally binded contract that country leaders signed to keep global temperature rise below 2°C. This strategy has been effective and involves both developed and developing countries.

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5) a) <u>Advantages of the proposed site</u>	
An advantage of the proposed site is that it is expanding the amount of users at the airport.	
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Another advantage would be that it is very close to main roads such as the M4 grid reference 060785 and the A4 grid reference 060770.	
Another advantage of the proposed site is that its a very well known airport and additional passengers means more security.	

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Disadvantages of proposed site

One disadvantage would be that the site they plan to build on is not an empty area of land therefore they would need to do some destruction before they built on it. This is

~~Another disadvantage~~ shown in grid reference 057776 as there is a church, public house and post office.

Another disadvantage would be that its located over small river flows grid reference 050771 where the River Colne is found.

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b.)	<u>Social Impacts</u> The new development will mean that passenger numbers will dramatically increase from 80 million to as much as 100 million in 2030 which is shown in Diagram Q3B, this will have a social impact as more people will be entering the Heathrow area. Another social impact is that some people may object, diagram Q3D, and protests and tension may break out which could lead to increased crime. <u>Economic Impacts</u> An economic impact is that more people will be entering the Heathrow Area and Airport so businesses and the economy will benefit as more customers and workers will arrive. Another economic impact is that the new

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expansion will cost the UK a huge sum of money which will effect the economy.

Another economic impact is that new businesses and offices can be built and established near the airport as more people can use it therefore its more accessible.

Environmental Impact

As shown in diagram Q5D, the new runway allows more planes to fly which contributes to global climate change.