

Year 8 Geography Assignment 2010

Global Population Issues

All tasks are to be completed using ICT (computers). If you are unsure of any section you should ask your teacher to help you. **DO NOT** submit your work in a display folder. The marks awarded can be found next to each question. Total marks for this assignment = 70.

Due date: 24th March 2010

Population is the total number of human inhabitants of a particular area such as a city, country or continent, at any given time. The study of the world's population is known as demography.

- The world's population reached 6 billion on 12 October 1999 and by June 2006 had reached 6.52 billion.
- In 2002, there were just over 2 births per second.
- In 2002, the world's population increased by approx. 74 million compared to an increase of 87 million in 1989-90.
- Developing nations account for 98% of world population growth.
- It is estimated that Africa will more than double its population in the first half of the 21st Century.
- The two countries with the largest population are China and India. It is predicted that India will become the most populated country in the next few decades. Two out of every five people on Earth live in China or India.
- The world's population is expected to reach 9 billion by 2054.
- The average age of the world's population at the start of 2000 was 25. This is expected to rise.
- The annual average growth rate has declined from a high of 2.2% in 1963-64 to 1.2% in 2002 and it is expected that this slowdown in population growth will continue in the foreseeable future.
- Life expectancy around the globe averaged 64.3 years in the 20 years between 1980 and 2000.

1. What is the estimated world's population when you did this assignment. (1 mark)
Visit the website: www.census.gov/main/www/popclock.html
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2. Read the points in the fact box above. Write a descriptive paragraph that summarises your understanding of the current world population situation.(5 marks)
(Do not copy out the points in the box, but write your paragraph in your own words).
3. List 5 positive and 5 negative impacts of population growth. (10 marks).
(You may wish to Google Impacts of World Population Growth to help you find your answers).

Positive Impacts

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Negative Impacts

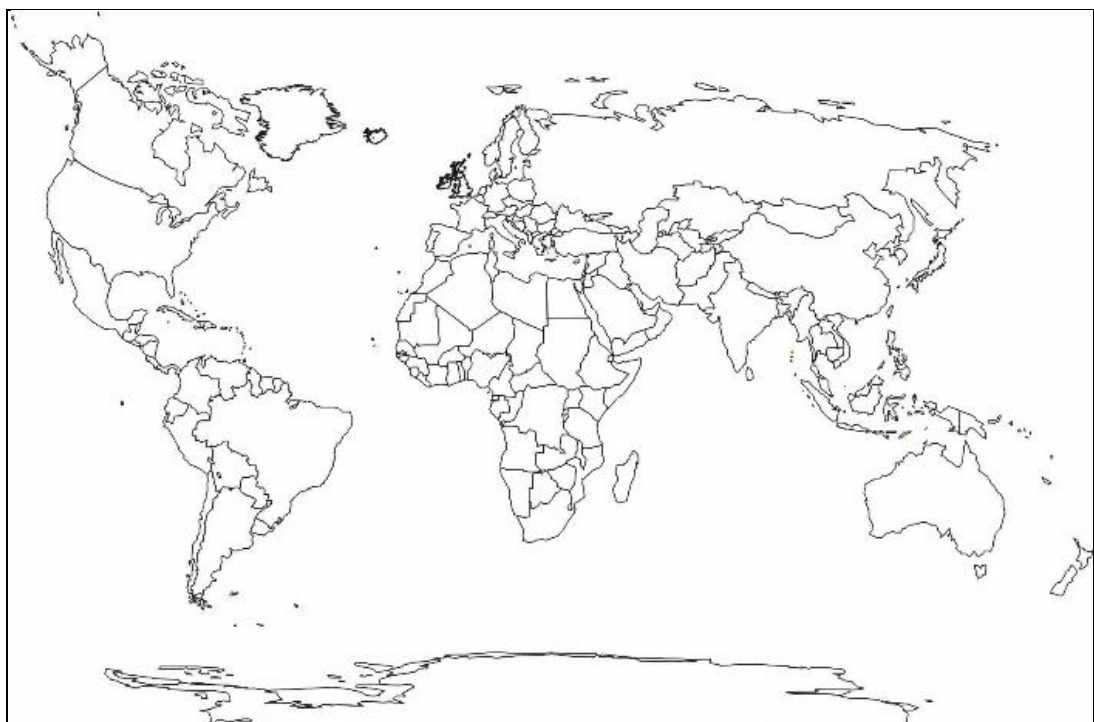
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Refer to the table below.

World population growth 1804-2054 (predicted)	
World population reached 1 billion	1804
World population reached 2 billion	1927
World population reached 3 billion	1960
World population reached 4 billion	1974
World population reached 5 billion	1987
World population reached 6 billion	1999
World population predicted to reach 7 billion	2013
World population predicted to reach 8 billion	2028
World population predicted to reach 9 billion	2054

4. Describe the trend in population growth. **(2 marks)**
5. Why could this growth be said to be 'exponential' growth? **(2 marks)**
(Hint Google exponential growth)
6. Calculate the number of years taken for the world population to grow from one billion to two billion. **(1 mark)**
7. How many years then passed before the world population reached three billion? **(1 mark)**
8. Which time period saw the most rapid growth? **(1 mark)**
9. What growth trend is expected for the 21st Century? **(1 mark)**
10. Using Microsoft Excel, draw a line graph to show the increase in the world's population as shown in the table. **(7 marks)**

Global population growth



Go to www.un.org/popin/ to find the world's 12 most populous countries.
Go to data, then On-line database

In 2010, the 12 most populous countries are: China, India, USA, Indonesia, Brazil, Pakistan, Bangladesh, Russia, Nigeria, Japan, Mexico and the Philippines.

11. On the map above colour these 12 countries in **RED** (7 marks).
12. From the website above what is the present population (2010) of India, Indonesia, Japan, Mexico and Nigeria? (2.5 marks)
13. From the website what is the predicted population (2050) of China, USA, Brazil, Pakistan and Bangladesh? (2.5 marks)
14. Calculate the percentage change for Nigeria between the years of 2010 and 2050? (2 marks)
15. In 2050 (predicted) the 12 most populous countries in the world are expected to be: India, China, USA, Pakistan, Indonesia, Nigeria, Brazil, Bangladesh, Democratic Republic of Congo, Ethiopia, Mexico and the Philippines. Which of these countries were not countries that you coloured in, in question 12? What is the 2050 prediction for these two countries? Colour these countries on the map above in **BLUE**. (4 marks)
16. In which continents do the countries belong to in question 13? Complete the table. (6 marks)

Country	Continent
India	
China	
USA	
Pakistan	
Indonesia	
Nigeria	
Brazil	
Bangladesh	
Democratic Republic of the Congo	
Ethiopia	
Mexico	
Philippines	

Extended Response

17. Explain why the data in the table below might be of concern.
Extended response (10 marks)
Literacy elements (5 marks)

Population (millions)	
Developing Countries	5 266
Developed Countries	1 211

N.B. You are to write at least three paragraphs. Make sure you explain the difference between a developing country and a developed country. You should also give examples. The remaining paragraphs will explain why population growth in these countries will be of concern. You may use any information you have gathered in this assignment, however you must not download information from the Internet. Literacy elements (paragraphs, sentence structure, punctuation, and spelling) will also be considered.