

Module 1.7 - Collecting, Analysing and Presenting Information

In this module you will use a variety of skills that can be used in many aspects of your education.

Firstly you will **collect** information. There are many millions of web sites available on the Internet. You must have the skills to search and retrieve for specific items of data.

Secondly you will **analyse** this information. Raw statistics and pages of numbers are difficult to understand. You must group and categorise data then find totals and averages and produce charts to make data more accessible.

Finally you must draw your own conclusions and **present** your findings to others. You must be familiar with ICT tools for presenting information to others.

You are to work in pairs to complete the tasks in this module. By working collaboratively, sharing ideas and dividing workload you will produce the best possible results.

Task 1 - Collecting Information

You will search for statistical data on a number of countries from around the world using the www.geographyiq.com website.



For a number of countries from around the world you will search for some of the following items of data:

Country	Infant Mortality Rate	External Debt
Capital	Life Expectancy	Military Expenditure \$
Continent	Literacy Rate	Unemployment Rate
Population	Gross Domestic Product	Exports
Area	Population below property line	Imports
Birth Rate		

In your jotter answer the following questions.

1. Of the items in the table above, which are indicators of a country's health?
2. Of the items in the table above, which are indicators of a country's wealth?
3. Define the term birth rate.
4. Define the term Gross Domestic Product.
5. Define the term life expectancy.

Task 2 – Collecting Information

In the subsequent tasks you will collect information on some of the following countries:

Argentina, Brazil, Zimbabwe, United Kingdom, Peru, Colombia, Belgium, Ethiopia, Mozambique, , France, Burkina Faso, Spain, South Africa, Afghanistan, Venezuela, Pakistan, Austria, Nigeria, China, South Korea, Malaysia, Thailand, Australia, Canada, United States, Japan, Ghana, Chile, Germany, Bangladesh, Italy

Answer the following questions in your jotter.

1. Define the term developed world.
2. Define the term developing world.
3. Name the continents.
4. Which continent(s) could be said to be part of the developed world?
5. Which continent(s) could be said to be part of the developing world?
6. Which continent(s) could be said to include countries from both the developed and the developing world?
7. Group the countries above into their different continents.

Task 3 - Analysing Information

You must carry out at least **three** of the following tasks but you may do more depending on time and your teacher's instructions.

Task 3A

Enter the following information in a new worksheet.

Country	Population	Area	Population Density
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Enter formulae to calculate the population density for 10 countries by dividing population by area.

Produce a chart to illustrate this information.

Task 3B

Enter the following information in a new worksheet with 10 countries arranged by continent.

Continent	Country	Infant Mortality	Birth Rate
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Enter formulae to calculate Average Infant Mortality for each continent and Average Birth rate for each continent

Produce a chart to illustrate this information.

Task 3C

Enter the following headings in a new worksheet with 10 countries arranged by continent.

Continent	Country	External Debt
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Enter statistics for each country in your sample.

Enter formulae to calculate the average External Debt per continent

Produce a chart showing the average external debt Europe, Asia, Africa, South America and Others

Task 3D

Enter the following headings in a new worksheet with 10 countries arranged by continent.

Continent	Country	Life Expectancy
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Enter formulae to calculate the average life expectancy in each continent

Produce a chart showing the average life expectancy for Europe, Asia, Africa, South America and Others

Task 3E

Enter the following information in a new worksheet.

Continent	Country	Imports(\$)	Exports(\$)	Trade Gap
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Enter formulae to calculate the Trade Gap for 10 countries by subtracting Imports from Exports

Produce a chart to illustrate this information.

Task 3F

Enter the following for 10 countries in a new worksheet.

Country	Gross Domestic Product	Military Expenditure	% of GDP Spent on Military
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Enter formulae to calculate percentage of GDP spent on Military by dividing Military Expenditure by GDP and formatting as a percentage.

Produce a chart to illustrate this information.

Task 3G

Enter the following information for 10 countries in a new worksheet.

Continent	Country	Literacy Rate	Population Below Poverty Line	Unemployment Rate
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Enter a formula to calculate the average literacy rate and unemployment rate for each continent.

Produce a chart to illustrate this information.

Task 3H

Produce any other appropriate worksheet and chart based on the data collected previously.

Task 4 - Presentation Graphics

Microsoft PowerPoint is a **presentation graphics** package. It allows you to quickly and easily produce computerised slide shows.

There are a number of advantages to using PowerPoint to produce your presentations:


- You can include multimedia clips, e.g. videos and sounds.
- You can import text, graphics, tables and charts from other computer programs.
- You can include special effects for displaying text on your slides.

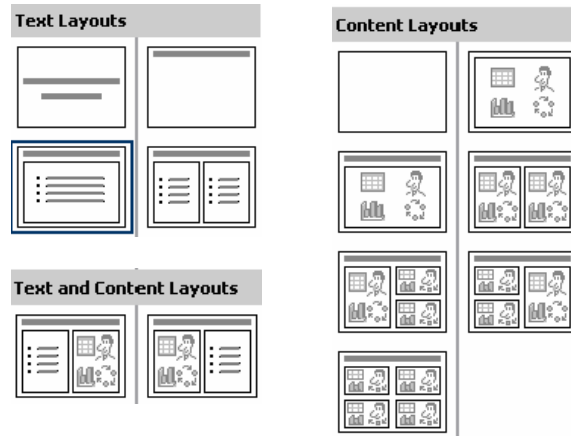
The final, assessable task in this module requires you to prepare a presentation and talk. You will use Microsoft Powerpoint to prepare a computer based slide show. To do this follow these instructions:


- Start a new presentation
- Choose a design template. This is a colourful background for each slide.

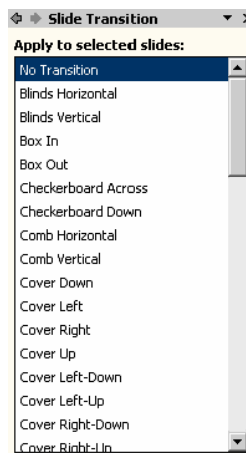


- Enter your heading and your subheading

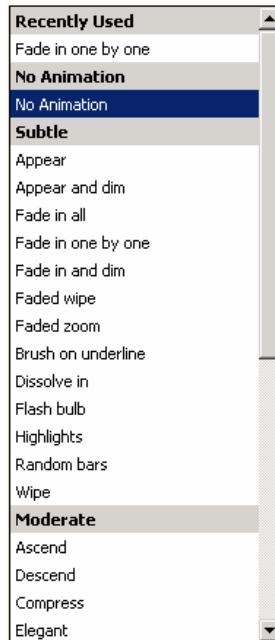
- Create a new slide,  New Slide
- Add information and pictures to each slide, choosing an appropriate layout for each slide from the following.



- Click on slide sorter view, . This view allows you to very quickly change the order of slides.
- Choose Slide Transitions for each slide. Slide transitions are animation effects that occur as you move from one slide to the next.



- Choose Build Effects for each slide. Build effects are animation effects that occur as different items appear on a slide.



- Add an audio file. Powerpoint is capable of working with a variety of file types. You can include text, charts, pictures, movies and sounds in your presentations.
- Rehearse timings. It is possible to plan a Powerpoint presentation where the slides change automatically after a set period of time. Typically you would do this to accompany a speech. You could practice the speech, click on the Timing tool and perform your speech, clicking the mouse to change slides at the appropriate time. Then, next time you perform the speech the slides will change automatically.

Your completed presentation will be graded and will count towards your module assessment.

Task 5 - Presenting Conclusions - Assessable Task

In this final task you will produce a Powerpoint presentation entitled 'Health & Wealth'. Your grade for this module will be based upon the quality of your presentation.

Working in pairs you must produce a slide show using all the skills learned in the previous tasks.

You will be required to prepare and deliver a speech to accompany your presentation. Type this speech in Notes view in Powerpoint, deciding which sections each person will talk about. Print these notes before delivering your speech.

Your slides should contain only key points that you should then speak about in detail. Do not include too much text on your slides - this is difficult for your audience to read.

You may choose to examine some countries in more detail than others. You should download relevant images to include in your presentation as well as copying and pasting charts from Excel.

Use your imagination and initiative to make your presentation as interesting and attractive as possible in order to gain the best possible grade.

Extension Task

The spread of HIV/AIDS is one of the biggest problems facing the developing world and, in particular, Sub-Saharan Africa. Search for the following statistics:

HIV/AIDS - Adult Prevalence Rate
HIV/AIDS - People living with HIV/AIDS
HIV/AIDS Deaths

Compare the statistics for developing and developed countries. Prepare a presentation on the problems this virus is causing in the developing world. Consider the following points:

- Which age group is the most productive in any society?
- Which age group are most likely to contract HIV/AIDS?
- How does the virus affect young families?
- How does the virus affect expectant mothers?
- How does the virus affect a country's health service?
- How does the virus affect a country's education?
- How does the virus affect a country's economy?

Extension Questions

What is meant by the term **globalisation**?

What does **IMF** stand for?

Which countries will have influence over the IMF?

Which countries will be most heavily influenced by the IMF?

What effect does debt have upon developing countries?

Why have many celebrities and individuals campaigned for debt relief for these countries?

How is globalisation biased in favour of the developed world?

Homework Exercise 1 - Spreadsheets

1. Look at the following spreadsheet.

	A	B	C
1	Country	Life Expectancy	Death Rate
2	X	65	7
3	Y	70	6
4	Z	75	5
5			

- (a) Write **two** formulae that you could use to calculate the average life expectancy for these countries. (2)
- (b) Write a formula that would display the highest life expectancy. (1)
- (c) Write a formula that would display the lowest death rate. (1)
- (d) Describe how you can change the width of a column. (1)
- (e) Write the main stages in producing a spreadsheet chart. (3)
- (f) Why is a spreadsheet program useful for manipulating this type of statistical information? (1)
- (g) Name three ways of formatting the appearance of a cell and its contents.(3)

TOTAL (12)

Homework Exercise 2 – The Health of Countries

1. What is meant by the term **life expectancy**? (1)
2. (a) Would you expect average life expectancy to be highest in African countries or in European countries? (1)
(b) Give **two** reasons why you think this may be the case. (2)
3. By referring to specific countries, why is it difficult to estimate the average life expectancy in Asian countries? (2)
4. What is meant by the term **developed world**? (1)
5. What is meant by the term **developing world**? (1)
6. How can the climate of a country affect the **health** of its population? (1)
7. How can the climate of a country affect the **wealth** of its population? (1)

TOTAL (10)

Homework Exercise 3 – The Wealth of Countries

It may be necessary to find answers to this homework exercise by searching on the Internet, discussing with your parents or by visiting sites such as www.oxfam.org.

1. Do developing countries tend to import or export more goods? (1)
2. Which types of goods might a developed country import from a developing country? (1)
3. Which types of goods might a developed country export to a developing country? (1)
4. Do developed countries tend to import or export more goods? (1)
5. What effect does a country's external debt have upon its economy? (1)
6. What would be the main form of employment in developing countries? (1)
7. How can this affect the health of a country? (1)
8. How can climate affect the wealth of a country? (1)
9. Why, when many people are living in poverty, do countries spend so much on the military? (1)
10. Why does foreign debt hamper the growth of developing countries? (1)

TOTAL (10)

Homework Exercise 4 – Fair Trade

It may be necessary to find answers to this homework exercise by searching on the Internet, discussing with your parents or by visiting sites such as www.oxfam.org.

1. When you eat a bar of chocolate, which countries might the cocoa beans have come from? Name at least two countries. (2)
2. When you drink a cup of tea, which countries might the tea leaves have come from? Name at least two countries. (2)
3. When you drink a cup of coffee, which countries might the coffee beans have come from? Name at least two countries. (2)
4. When you eat a banana which countries might it have come from? Name at least two countries. (2)
5. What does the Fair Trade organisation try to do for the farmers producing these products? (2)
6. How is this fairer than buying chocolate, tea, coffee or fruit from large companies such as Nestle, Cadburys, Del Monte etc? (2)

TOTAL (12)

Homework Exercise 5 - Powerpoint

1. Describe **two** ways of moving from one slide to the next? (2)
2. Describe two ways of moving to the previous slide in a slide show? (2)
3. What is an advantage in setting timings to move automatically from one slide to the next? (1)
4. Name and describe **two** slide transitions. (2)
5. Name and describe **two** build effects. (2)
6. How do you change the order of the slides? (1)
7. Animations can be created in Flash or Powerpoint. Give one advantage and one disadvantage of choosing Powerpoint to create your animation. (2)

TOTAL (12)