

Name _____ Class _____ Date _____

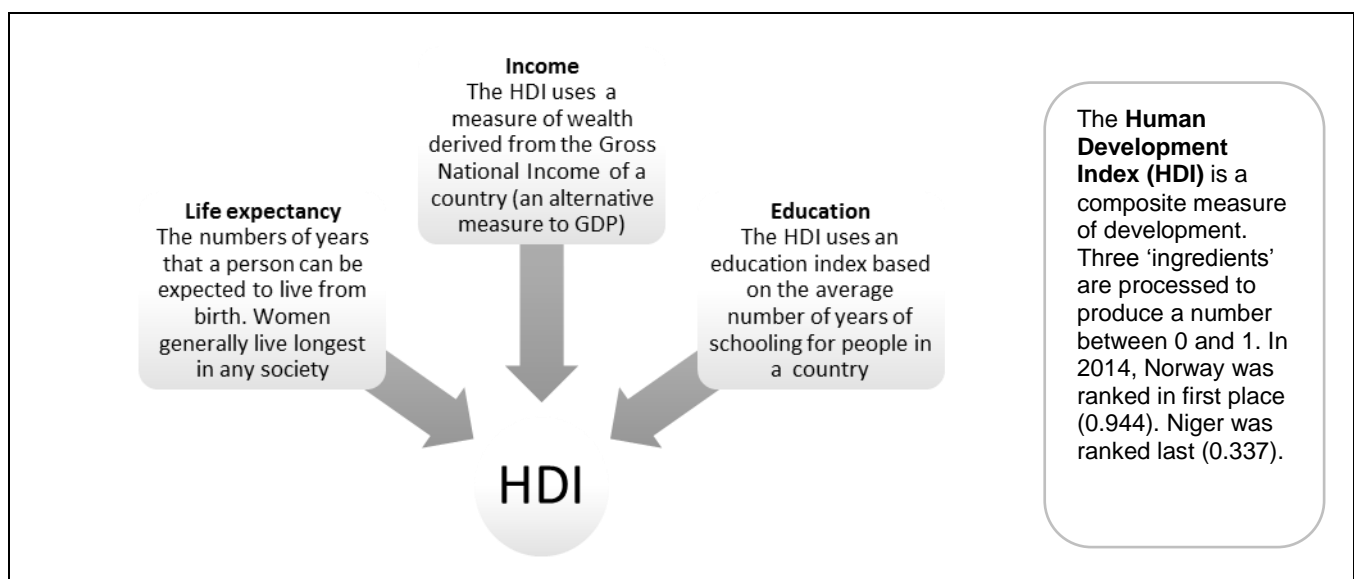
Comparing development using single and composite measures

- Know the different ways of ranking the level of development countries
 - Understand how the Human Development Index is calculated and correlates with other development measures
 - Be able to produce and interpret a scatter graph showing the correlation between different development measures
- 1 The table below shows some of ways of measuring the level of development for five countries. After familiarising yourself with these development measures, your first task is to rank them (the first two HDI rankings have already been completed for you).
 - 2 Briefly describe how the rankings vary for the countries shown.

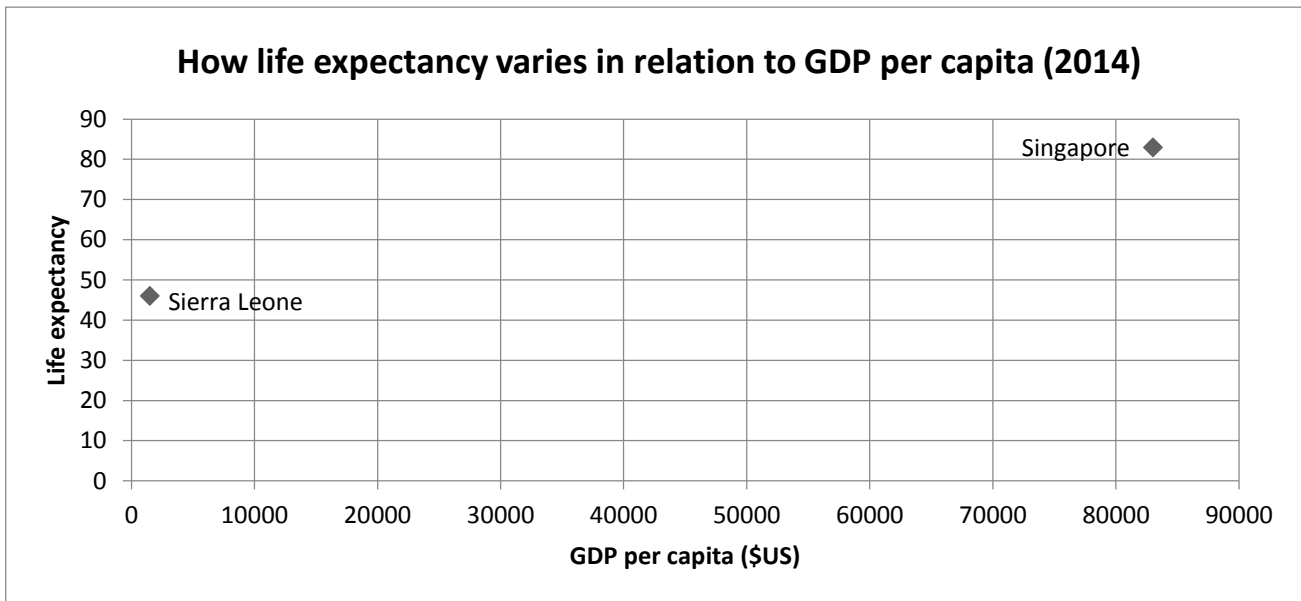
Country	UK		China		Australia		Saudi Arabia	
	Data	Rank	Data	Rank	Data	Rank	Data	Rank
Human Development Index (A composite measure that reflects a country's economic and social development.)	0.892	2	0.719		0.933	1	0.836	
Gross National Product per capita (A country's earnings per person in US dollars. Data are adjusted to reflect living costs.)	40,000		13,000		46,000		52,000	
Global Corruption Index (A widely used measure that gives high scores to countries believed to be free of political corruption.)	78		36		80		49	

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- 3 Study the diagram below which shows how the Human Development Index is calculated. Based on this information and your own knowledge, can you suggest reasons for the HDI scores shown in the table above?



- 4 Your next task is to complete the scatter graph below using the data provided in the table. Label each country (Singapore and Sierra Leone have already been plotted and labelled for you). Do **not** draw a line.



Country	GDP per capita (US dollars)	Life expectancy (years)	Country	GDP per capita (US dollars)	Life expectancy (years)
Singapore	83,000	83	Mexico	18,000	76
Kuwait	71,000	78	Brazil	16,000	74
Norway	67,000	82	China	13,000	75
USA	55,000	79	Indonesia	10,500	69
Ireland	49,000	81	Nigeria	6,000	54
Canada	44,000	82	Pakistan	5,000	65
France	40,000	82	Kenya	3,000	61
Spain	34,000	82	Sierra Leone	1,500	46

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- 5 In pairs, **discuss** what the completed scatter graph shows you about the nature of the correlation between GDP per capita and life expectancy.
- 6 As part of the discussion, try to answer the following question: why might it be **inappropriate** to draw a straight best-fit line on your completed scatter graph?
- 7 Working on your own scatter graph, write a brief paragraph **describing** the relationship shown by the scatter graph.
- 8 Finally, **discuss** the following questions in small groups.
- How sure can we be that the data we have used are **reliable**?
 - Why might it be difficult or impossible to collect development data for some countries or regions?

I can...

- rank countries according to their level of development using a range of different indicators
- use the Human Development Index to quantify and interpret development scores
- draw and interpret a scatter graph.