A-Level Geography – Taster Session

What is Geography?

Geography is the study of **places** and the **relationships** between **people** and their **environments**. Geographers explore both the **physical properties** of Earth's surface and the **human societies** spread across it.

They also examine how human culture interacts with the natural environment and the way that locations and places can have an impact on people.









Physical Geography

<u>Human Geography</u>

Tectonic Processes and Hazards

Coastal Landscapes and Change

The Water Cycle

The Carbon Cycle

Globalisation

Regenerating Places

Superpowers

Health, Human Rights and Interventions

- The syllabus is large
- You will be expected to know your material inside out, the questions will often ask you to use that knowledge to apply it to something new
- Questions are almost all evaluative in other words they require an informed judgement by you I.e. not just what something is but how much you agree or how strong something is.
- E.g. you will learn about earthquakes case studies but a question could be "Earthquakes don't kill people, buildings do" To what extent do you agree with this statement? /20
- You need to be prepared to do a lot of reading and research both guided and independently and the more the better so that you can shape these opinions and sound like you know what you are talking about!

Exploring the biotechnological potential of isoprene-degrading bacteria — Miss Jones' dissertation

Exploring the Paleocene-Eocene Thermal Maximum paleoclimate using isotope analysis of foraminifera in sediments – Miss Jones' Masters dissertation



What drives the vertical nitrate flux in the Western Irish Sea?

A GIS analysis on the prevalence and local management of ash dieback.

Place, Memories and Inter-generational relations: Exploring Charlton Athletic Football Club Fan Attachment to their Stadium, The Valley – Mr Slater's dissertation

WITERE CAN GEOGRAPHY TAKE VOII?

What is the relative effect of sea level rise on regional infrastructure?

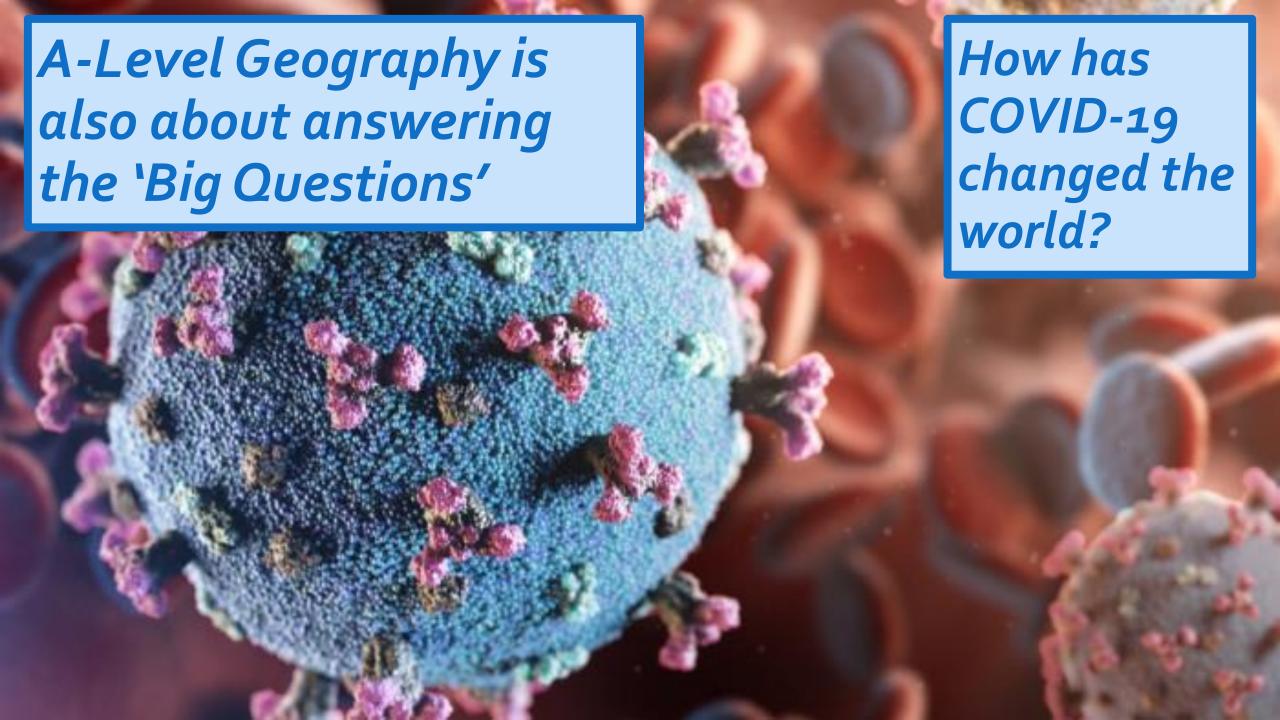
"Maps are less pictures than they are arguments." – Discuss. Report writing

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How globalisation has impacted concepts of place.

II Skills

A critical comparison of air pollution policy methods – written in the style of a government POSTnote



DISEASE DILEMMAS

Key Ideas	Content
1.a. Diseases can be classified and their patterns mapped. The spread of	 How diseases can be classified, including infectious and non-infectious, communicable and noncommunicable, contagious and non-contagious, epidemic, endemic and pandemic. Patterns of diseases, including global distributions of malaria, HIV, tuberculosis,
diseases is complex and influenced by a number of factors.	 diabetes and cardio-vascular disease. Disease diffusion and spread to new areas (Hägerstrand model), including the phases of diffusion, physical and socio-economic barriers.

Round table: How many diseases can you name?



Without ARVs life looks bleak for HIV/Aids patients

Another moratorium expected in the Free State

AND THE AND TH

This is leading to human rights

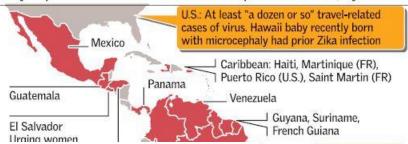
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Zika virus alert over rising birth defects

The Zika virus, a mosquito-borne disease suspected of causing serious birth defects, is likely to spread to all countries in the Americas except Canada and Chile, says the WHO



EU heart deaths 'halved since 1980s'

By Helen Briggs BBC News

© 26 June 2013 Health

microcephaly since Oct 2015. mainly in northeast. Brazil had fewer than 150 cases in whole of 2014 araguay Baby with microcephaly

Death rates from coronary heart disease have more than halved in almost all EU countries since the early 1980s, according to research.

Most countries have seen steady reductions in deaths in both men and women of all ages, despite rises in obesity and diabetes, a UK study shows.

However, experts have warned



women die from coronary heart disease in

the UK

flu virus

head

Brazil: Almost

4.000 babies born with

Thousands ignore 'keep calm'

pleas as helplines are flooded

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Revealed: the secret No 10 plan
Tears foto tackle bird flu food shortages

Key word card sort

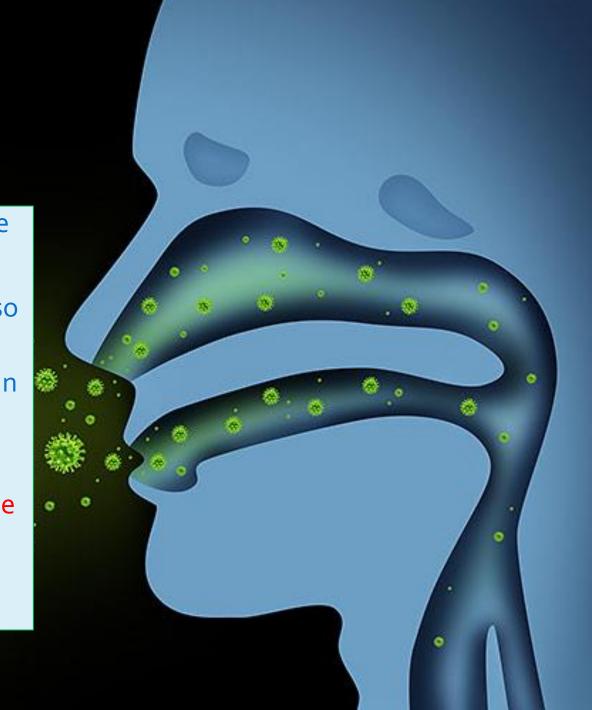


Disease classifications

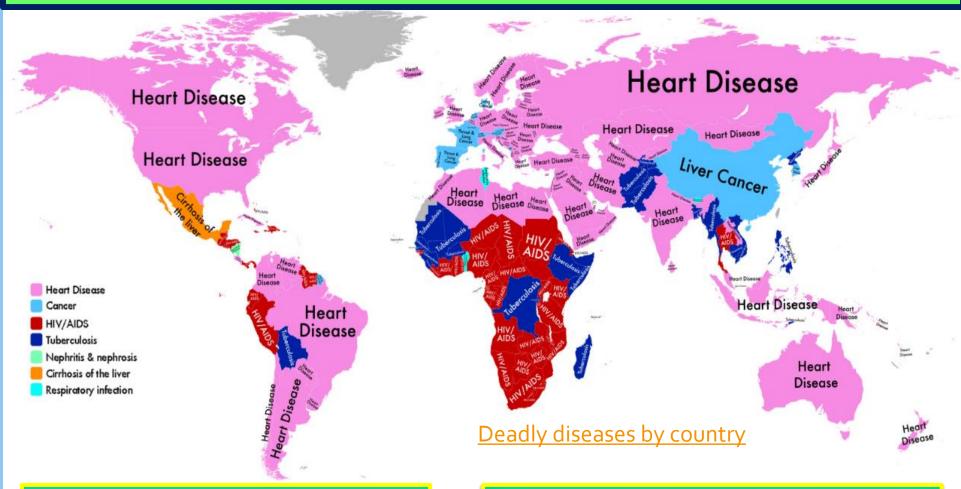
Infectious	Infectious diseases are caused by <u>pathogenic</u> microorganisms, such as bacteria, viruses, parasites or fungi; the diseases can be spread, directly or
	indirectly, from one person to another
Non-infectious	They arise from inside the body as a result of hereditary conditions or
	other causes, such as dietary deficiencies
Communicable	An infectious disease transmissible or communicable [CD] (as from
	person to person) by direct contact with an affected individual or
CDs	the individual's discharges or by indirect means (as by a vector)
Noncommunicable	Noncommunicable diseases [NCD], also known as chronic diseases, are not
***************************************	passed from person to person. They are of long duration and generally slow
NCDs	progression. The 4 main types of NCDs are cardiovascular diseases (like
	heart attacks and stroke), cancers, chronic respiratory diseases (such as
	chronic obstructed pulmonary disease & asthma) and diabetes
Contagious	A disease spread by contact (such as bodily fluids) or indirect contact (such
contagious	as coughing) between people
Non-contagious	Usually requires a special mode of transmission between persons or hosts
Tion contagious	such as <u>vectors</u> (mosquitoes) or by non-casual transfer of bodily fluid (such
	as unprotected sex, blood transfusions or sharing needles)
Epidemic	An increase, often sudden, in the number of cases of a disease above what
Epideiiile	is normally expected in that population in that area
Endemic	A disease that exits permanently in a geographical area or human group
Pandemic	An epidemic that has spread over several countries or continents, usually
	affecting a large number of people

Infectious vs communicable

- Communicable any disease that can be transferred between people either directly (contagious so quarantine is required) or indirectly (non-contagious so no quarantine is required)
- Infectious diseases involve pathogens (an organism that causes disease)
- Infectious diseases can be communicable and vice versa
- Genetic diseases are communicable but not infectious



Which disease is most likely to kill you depending on where you live?



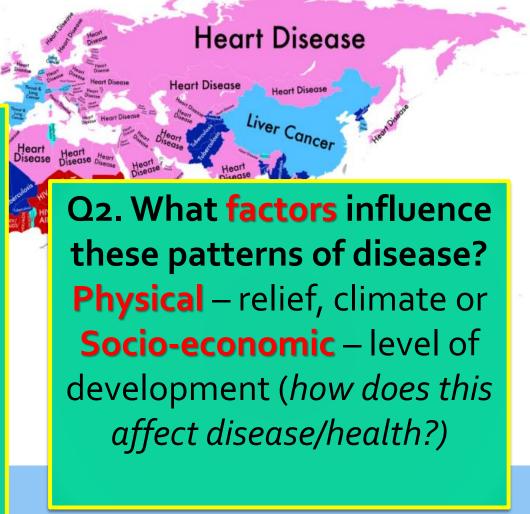
Q1. What is the pattern of disease spread?

Q2. What factors influence these patterns of disease?

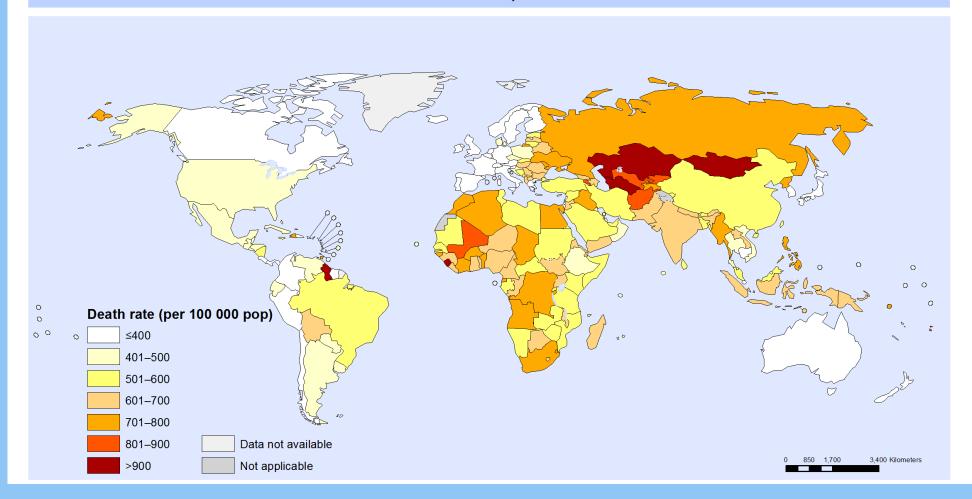
Which disease is most likely to kill you depending on where you live?

Heart Disease

Q1. What is the pattern of disease spread? Northern hemisphere the main pattern is heart disease which is noncommunicable [NCD]. Africa is largely HIV/AIDS which is communicable [CD]



Deaths due to noncommunicable diseases: age-standardized death rate (per 100 000 population) Both sexes, 2012



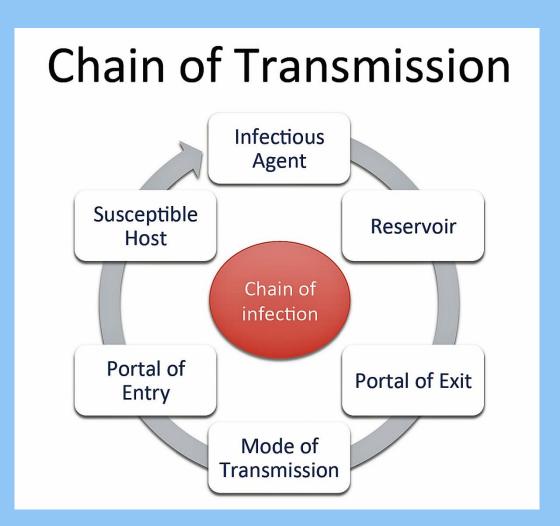
Describe what is happening

Source: WHO (2014)

INFECTIOUS DISEASES: Modes of

<u>transmission</u>

- All diseases classified as 'infectious' are just that, readily passed from person to person.
- The diagram shows that there are 6 basic organisms involved in the spread of infectious diseases.
- It also shows there are 6
 main modes of transmission
 [ways they are passed on]



Five major routes of transmission

What germs are on our hands ??

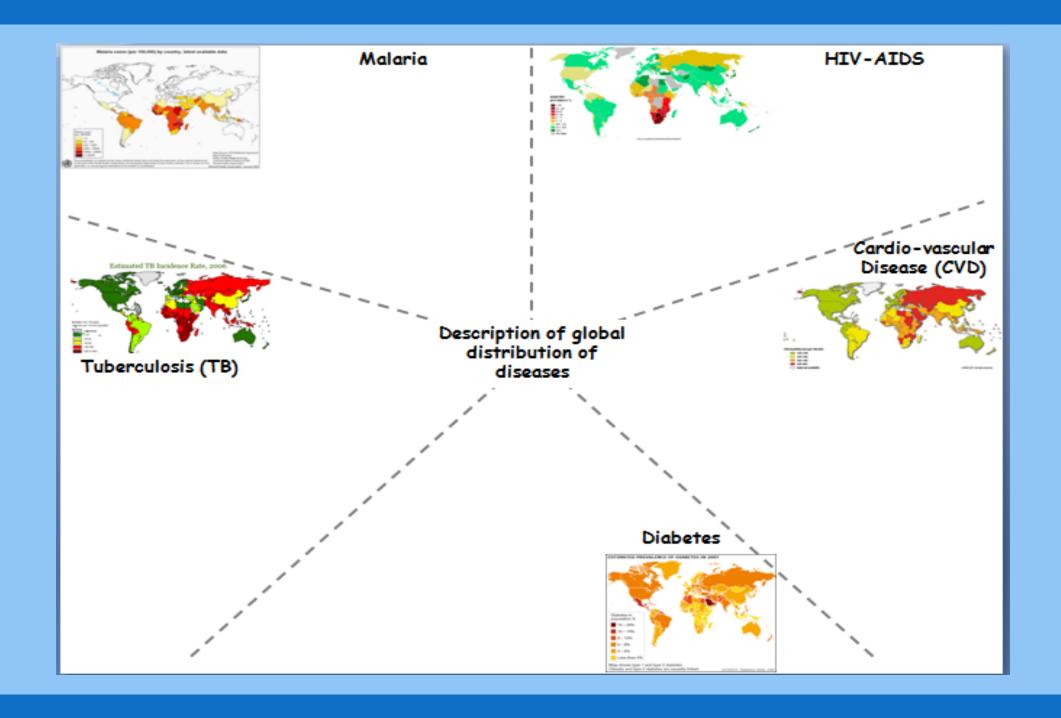
1. Contact:

Direct (person-person) Indirect (through an object)

- Droplet
- 3. Airborne
- 4. Common vehicle
- Vector borne



The same organism may be transmitted by more than one route



Nome
INISTRA

Plague Inc. Project Can You Destroy Humanity?



Human history has been guided by the effects of disease. Two examples are the Black Plague (killed almost 1/3 of the entire human population) and the Spanish Flu (killed 5% of the human population).

Plague Inc. is a strategy-simulation game in which you are an infectious agent which infects an individual. Your goal is to infect and kill the whole human population by evolving and adapting to various environments. However, there is a time pressure to complete the game before humans develop a cure against you.

