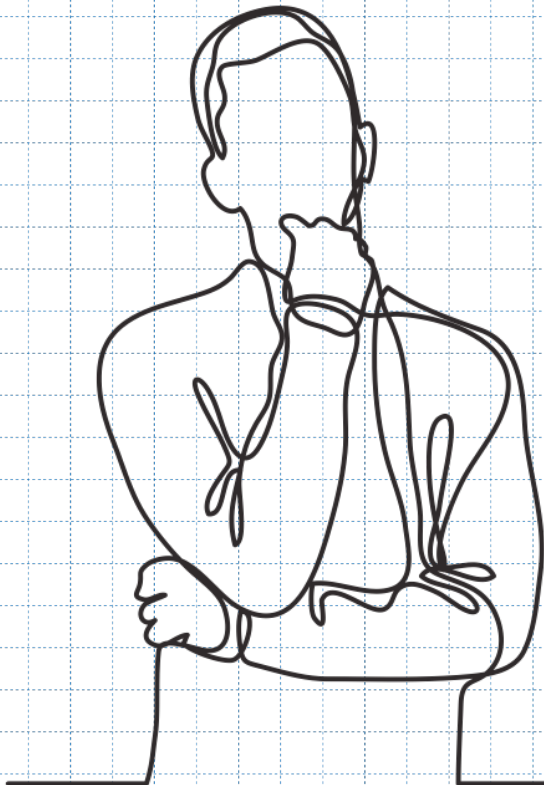


# Geographical Concepts



Think like a  
Geographer

# Geographical Concepts<sup>2</sup>

Geographical concepts are the big ideas in geography. They help us organise our thinking and make sense of the world. Below are some examples of geographical concepts it is important to be aware of.

interdependence

development

Earth systems

geographical  
concepts

sustainability

space

place

environments

# Geographical Concepts<sup>3</sup>

## Development

In GCSE Geography, "development" is a key concept that helps you understand how countries and regions improve their economic, social, and political well-being.

Development is all about progress. It's how countries grow and improve to provide a better quality of life for their citizens. Economic, social, and political aspects of a country provide an indication of development.



## Development Indicators

A development indicator is a tool used to measure and compare the level of development in different countries or regions. These indicators give us important clues about the economic, social, and political well-being of a place.

### Gross National Income (GNI) and GNI per capita

- GNI: The total value of all goods and services produced by a country's residents and the income earned from overseas.
- GNP per Capita: Dividing the total national income by the size of population.
- Why it's useful: These indicators show the economic health of a country.

### Human Development Index (HDI)

- A composite index that looks at life expectancy, education level, and income per capita (person). The closer to one the more developed.
- Why it's useful: It gives a broader picture of how well people are living, not just the economy.

### Literacy Rate

- The % of people who can read and write.
- Why it's useful: Education is crucial for development, so a higher literacy rate often means better development.

### Life Expectancy

- The average number of years a person is expected to live.
- Why it's useful: It indicates the overall health and well-being of a country's population.

# Geographical Concepts<sup>4</sup>


## Stages of Development

Based on gross national income (GNI), countries are classified into three main groups by the World Bank. These are high-income (developed) countries, newly emerging economies (emerging) and low-income countries (developing).

### High Income Countries (HICs)


High-income countries are defined by the World Bank as countries with a GNI per capita (in 2022) of \$13,846 or more.


 83 countries

 e.g. UK, Japan, USA, and New Zealand.

### Newly Emerging Economies (NEEs)

Newly emerging economics are defined by the World Bank as countries with a GNI per capita (in 2022) of between \$1,136 and \$13,845.


 80 countries

 e.g. China, Brazil, India, and Russia.

### Low Income Countries (LICs)

Low-income countries are defined by the World Bank as countries with a GNI per capita (in 2022) of \$1,135 or less.

 26 countries

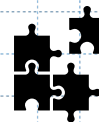
 e.g. Ethiopia, Chad, and Afghanistan.

## Why is understanding development important?



### Comparing Countries

By studying development, you can compare different countries and see why some are richer or poorer than others.



### Problem solving

Understanding development helps identify global issues like poverty, inequality, and health crises, and think about solutions.



### Global Awareness

It gives you a better understanding of the world and the challenges different countries face.



### Exam Preparation

Questions about development are common in geography exams. Knowing this helps you answer them confidently.

# Geographical Concepts<sup>5</sup>

## Development Activities

1. What is development?
2. What are development indicators?
3. Give four examples of development indicators.
4. How can countries be classified according to their economic development?
5. Study the development data in the table below. Compare levels of development between the three countries.

Country	GNI per capita (USD)	HDI	Literacy Rate (%)	Life Expectancy (years)
UK	\$46,510	0.932	99	81
Mali	\$850	0.428	35.47	59.3
China	\$12,530	0.768	96.8	77.3

# Geographical Concepts<sup>6</sup>

## Sustainability

In GCSE Geography, "sustainability" is a key concept that focuses on meeting the needs of the present without risking the ability of future generations to meet their own needs.

Sustainability is about balancing environmental, social, and economic factors to ensure that we can continue to thrive on our planet.

### Economic sustainability

Economic sustainability is when individuals and communities continue to have access to a reliable income over time without a negative impact on the environment, society, or culture.

### Social sustainability

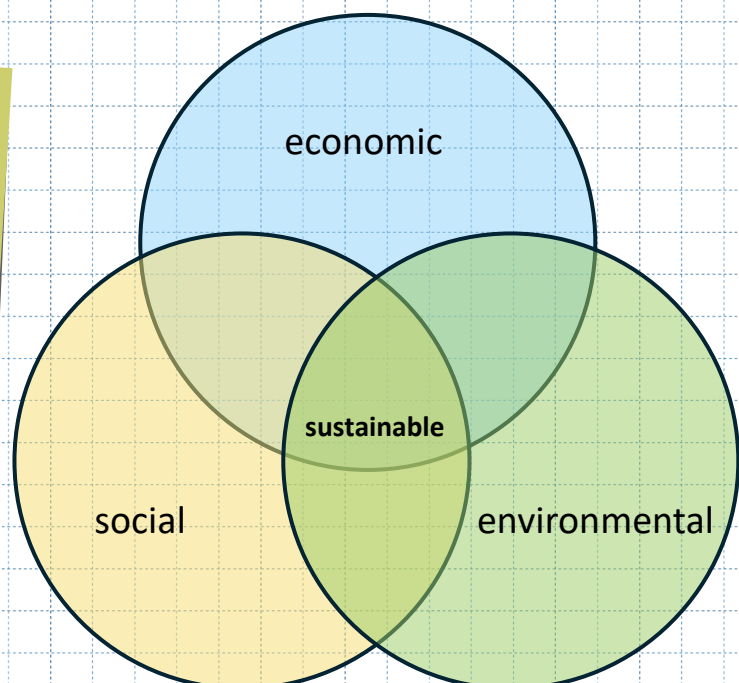
Social sustainability is when everyone can claim a reasonable quality of life, maximise their personal potential and maintain a healthy community now and in the future.

### Environmental stability

Environmental sustainability is when no lasting damage is done to the environment and renewable resources are managed in a ways that guarantee continued use.

## Is it sustainable?

In GCSE geography you will often be asked to consider how sustainable something is. To do this you will need to investigate whether it is economically, socially, and environmentally sustainable. Only when the needs of all areas are met now and in the future is something truly sustainable.



# Geographical Concepts

## Sustainability Activities

1. What is sustainability?
2. What is economic sustainability?
3. What is social sustainability?
4. What is environmental sustainability?
5. Read the scenarios below. Decide whether you think each is sustainable and give a reason for your answer.

### 1. Urban Farming

Urban farming initiatives provide fresh, locally-grown produce to city residents, improving access to healthy food and promoting community engagement through shared gardening spaces. The farming practices use organic methods, reducing the need for chemical pesticides and fertilizers. They also utilize rainwater harvesting systems to conserve water. The urban farms create jobs and business opportunities for local residents, selling produce at farmers' markets and to local restaurants, contributing to the local economy.

### 2. Industrial development

Urban farming initiatives provide fresh, locally-grown produce to city residents, improving access to healthy food and promoting community engagement through shared gardening spaces. The farming practices use organic methods, reducing the need for chemical pesticides and fertilizers. They also utilize rainwater harvesting systems to conserve water. The urban farms create jobs and business opportunities for local residents, selling produce at farmers' markets and to local restaurants, contributing to the local economy.

# Geographical Concepts<sup>8</sup>



## Environments

In GCSE Geography, the concept of the environment is all about understanding how our world's environments, landscapes, and societies are constantly changing due to various human and physical processes.

The dynamic nature of the environment highlights the interaction between physical geography (like landforms, climates, and ecosystems) and human geography (like cities, agriculture, and industry).

## Key Elements of the Environment

### Interaction between physical and human geography

The environment is shaped by both natural processes (like weather, erosion, and volcanic activity) and human activities (like farming, urbanisation, and deforestation). Understanding this interaction helps us see how humans adapt to and modify their surroundings.

### Ecosystems and environmental change

Ecosystems, which are communities of living organisms interacting with their physical environment, are constantly changing. These changes can be driven by natural events or human actions, affecting biodiversity and ecosystem health.

### Human impact and the environment

Humans are altering the environment at an unprecedented rate. Activities like deforestation, pollution, and urban expansion have significant impacts on the environment, leading to issues such as climate change, loss of biodiversity, and environmental degradation.

### Resources and sustainability

The environment provides essential resources for human survival and well-being, including water, air, minerals, and soil. These resources can be renewable (like solar energy and timber) or non-renewable (like fossil fuels and minerals). Sustainable management of these resources is crucial to ensure they are available for future generations.




# Geographical Concepts<sup>10</sup>


## Space

In GCSE Geography, "space" is a key concept that helps you understand the physical locations and distances between things.


Space is about the "where" of things and focuses on the arrangement and distribution of various elements in the physical world - where cities, rivers, mountains, and other features are located.

 **Location**

Where are things located?

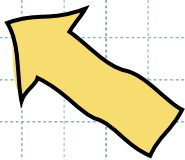
 **Distance**

How far apart are different places?

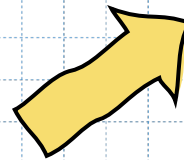
 **Patterns**

How are things spread out or distributed?

The location of a settlement

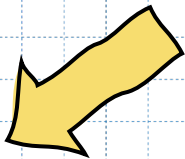


The distribution of cities and towns across a region

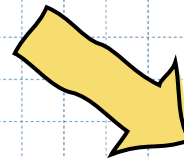


## Examples of Space

The layout of agricultural fields and their spacing



The arrangement of public transport networks within a city

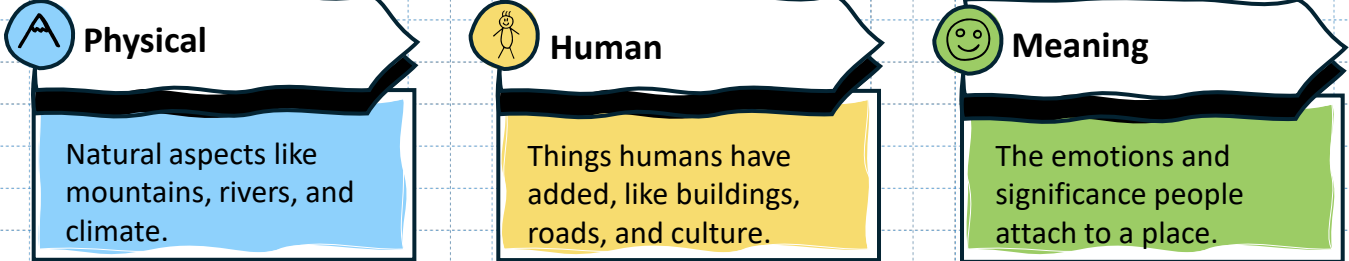


# Geographical Concepts<sup>1</sup>

## Place

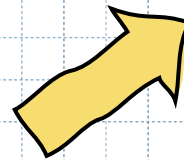
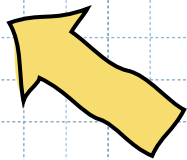
In GCSE Geography, "place" is a key concept that helps you understand what makes a location special or unique.

Place is the "what" and "why" of a location – what it's like there and why it matters to people. Place is about the feelings, meanings, and characteristics that make a spot unique.



Your hometown and why it feels like home

A location that feels special because of your experiences there e.g. a park



## Examples of Place

A place that has a cultural significance in your life.

Natural environments that are known for their unique beauty and recreational value e.g. Grand Canyon

# Geographical Concepts<sup>12</sup>

## Place and Space Compared

Space refers to the physical locations and distances between things, while place emphasises the unique characteristics and meanings that make a location special to people.

	Space	Place
<b>A Prompts</b>	Where?	What and why?
<b>A Location</b>	Where things are located and how they're arranged.	What a location is like and why it's important to people.
<b>A Features</b>	Objective and measurable (like distances and locations).	Subjective and meaningful (like personal feelings and cultural significance).
<b>A Why it matters</b>	Knowing about space helps us see how different places are connected. For example, how goods move from one city to another.	Understanding place helps us appreciate why certain locations are special and how they shape our lives and cultures.

# Geographical Concepts<sup>13</sup>

## Space and Place Activities

1. What is meant by the term place in geography?
2. What is meant by the term space in geography?
3. What is the difference between space and place in geography?
4. Complete the table below to identify examples of space and place.

	Space	Place
Your hometown, where you feel a sense of belonging and personal connection. It has specific characteristics that make it unique, like local landmarks, culture, and community spirit.		
Mecca in Saudi Arabia is a sacred location for Muslims. It holds deep religious significance and is the destination for the annual pilgrimage, Hajj.		
The spatial arrangement of cities across a region, such as the major cities along the east coast of the United States, illustrates how they are distributed and connected.		
The layout of a city's public transportation system, such as the subway lines in London, shows how different parts of the city are interconnected through space.		
The Great Wall of China has significant historical and cultural importance. It symbolises ancient Chinese history and attracts tourists from around the world.		
The pattern and spacing of agricultural fields in rural areas, such as the checkerboard layout seen in many farming regions, reflect how land is used and organised.		
A map showing the population density of a country, like the varying densities across India, highlights how people are spread out.		
The Grand Canyon in the United States is known for its stunning geological formations and natural beauty. It attracts visitors for its scenic views and recreational opportunities.		
Greenwich Village in New York City is known for its unique cultural vibe, historic architecture, and vibrant arts scene. It has a distinct identity within the larger city.		
The spatial organisation of different economic zones within a city, such as residential, commercial, and industrial areas, shows how space is divided and used for various purposes.		

# Geographical Concepts<sup>14</sup>

## Earth Systems

In GCSE Geography, "earth systems" is a key concept that helps you understand the interconnected processes and cycles that shape our planet.

Earth explain how the Earth's landforms, environments, and landscapes are continuously changing due to dynamic biological, chemical, and physical processes.

### Physical processes and cycles

Earth Systems involve various physical processes and cycles, such as the water cycle, carbon cycle, and rock cycle. These processes are essential for maintaining the balance of the Earth's systems and supporting life.

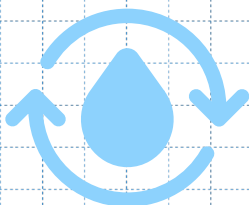
### Dynamic Changes

The Earth's surface is constantly changing. These changes can be slow, like the erosion of mountains, or fast, like volcanic eruptions. Understanding these changes helps us explain the formation and alteration of landscapes.

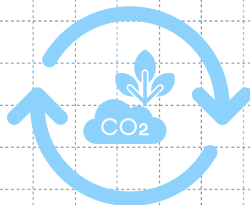
### Biological, chemical and physical interactions

Biological processes include the growth of plants and the activity of microorganisms. Chemical processes involve reactions that change the composition of the Earth's crust, such as weathering and decomposition. Physical processes include the movement of tectonic plates, erosion by wind and water, and sediment deposition.

## Important Earth Systems



The Water Cycle



The Carbon Cycle



The Rock Cycle



Plate-tectonics

## Real-World Applications

Understanding the causes and effects of climate change and developing strategies to mitigate and adapt to its impacts.

Understanding tectonic processes and the water cycle helps predict and prepare for natural disasters like earthquakes, tsunamis, and floods.

Understanding the water cycle helps manage water supplies and supports planning and responses to flooding.

# Geographical Concepts<sup>15</sup>

## Earth systems Activities

1. What is an Earth system?
2. Classify the different Earth systems in the table below.

Example of Earth systems	Physical Processes and Cycles	Dynamic Changes	Biological, chemical and physical interactions
The gradual wearing away of the Earth's surface by wind, water, or ice. For example, river erosion can carve out valleys and gorges over time.			
Chemical weathering, like the reaction of rainwater with minerals in rocks, breaks down rocks into smaller particles.			
This involves processes like evaporation (water turning into vapor), condensation (vapor forming clouds), precipitation (rain, snow, sleet), and runoff (water flowing over the land). These processes circulate water through the atmosphere, land, and oceans.			
Rapid changes to the Earth's surface when magma from within the Earth erupts through the crust, forming new landforms like volcanoes and lava fields.			
Photosynthesis is a biological process where plants use sunlight to convert carbon dioxide and water into oxygen and glucose. Respiration is the process where organisms convert glucose and oxygen into energy, releasing carbon dioxide and water.			
This includes processes such as photosynthesis (plants absorbing carbon dioxide and converting it into oxygen and glucose), respiration (animals and plants releasing carbon dioxide back into the atmosphere), decomposition (dead organisms breaking down and releasing carbon), and fossil fuel combustion (burning coal, oil, and natural gas releasing carbon dioxide).			
The slow movement of glaciers reshapes the landscape by carving out valleys, transporting rocks and sediments, and forming features like moraines and fjords.			
The movement of the Earth's tectonic plates is a physical process that can cause earthquakes, volcanic activity, and the creation of mountain ranges.			
This describes how rocks transform from one type to another through processes like melting (forming magma), cooling (forming igneous rocks), weathering and erosion (breaking down rocks into sediments), sedimentation (forming sedimentary rocks), and metamorphism (transforming rocks under pressure and heat into metamorphic rocks).			

# Geographical Concepts<sup>16</sup>

## Interdependence

In GCSE Geography, the concept of interdependence is all about understanding how different places, people, and environments are connected and rely on each other.

Interdependence highlights the idea that no place or society exists in isolation, and the interactions and exchanges between them shape the world we live in.

### Economic Interdependence

Countries trade goods and services, share technology, and invest in each other's economies. This means that the economic success of one country can affect many others. For example, the global supply chain for products like smartphones involves parts from multiple countries, showing how economies are linked.

### Environmental Interdependence

Environmental interdependence refers to the way that different environmental systems, processes, and regions rely on and affect each other. It operates at various scales, from the interdependence within a single ecosystem to the broader, cross-border interactions influencing global phenomena like climate change.

### Social and Cultural Interdependence

People, ideas, and cultures move across borders, leading to a mixing of traditions, languages, and lifestyles. This cultural exchange enriches societies and fosters global connections. For example, migration brings diverse cultures to new regions, influencing food, music, and social practices.

### Political Interdependence

Countries often cooperate to tackle global issues through international organisations and agreements. Political decisions in one country can have global repercussions. For example, International agreements like the Paris Climate Agreement involve countries working together to combat climate change.

# Geographical Concepts<sup>17</sup>

## Interdependence Activities

1. What is interdependence?
2. Identify the four types of interdependence. Design a simple icon for each.
3. Complete the table below to categorise the different examples of interdependence.

Example of interdependence	Economic	Environmental	Social and Cultural	Political
Global trade networks where goods and services are exchanged.				
Transboundary pollution and conservation efforts.				
Multinational corporations like Apple and Toyota operate in multiple countries.				
Ocean currents, such as the Gulf Stream play a crucial role in regulating climate.				
People move across borders for work, education, or to escape conflict.				
Lianas (vines) climb up tree trunks in the Amazon rainforest in a bid to reach sunlight.				
Organisations such as the United Nations (UN) and the World Health Organization (WHO) facilitate cooperation between countries to address global issues like peacekeeping, health crises, and human rights.				
Products like movies, music, and fashion often have global reach.				
Agreements, like the North American Free Trade Agreement (NAFTA) or the European Union (EU), create frameworks for economic cooperation and political stability.				