

# GEOGRAPHY AND HISTORY .....

YEAR 1, PART 1

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The representation of the Earth: maps The Earth Is relief **Climates and landscapes of the Earth Society and the environment** 



#### The Earth Is relief





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#### Introduction



- On our planet, the land is separated into large landmasses known as continents.
- There are six continents on Earth: Africa, America, Asia, Europe, Oceania and Antarctica.
- The continents have different kinds of relief, including plains, plateaus, mountain ranges, valleys and basins.
- The continents are surrounded by oceans that produce beaches, cliffs, gulfs, peninsulas and capes.
- Groups of islands in the middle of the sea are known as archipelagos.



# 1. The outer layer of the Earth



#### 1.1. The structure of the Earth

• The structure of the Earth

#### 1.2. The Earth's crust

#### 1.3. Continental drift

• Continental drift







#### 1.1. The structure of the Earth



- The Earth is a huge sphere which can be divided into three sections: the core, the mantle and the crust.
- The core is the deepest part and makes up 15% of the Earth's volume.
- The mantle surrounds the core and makes up 84% of the Earth's volume.
- The crust is the outer layer and makes up 1% of the Earth's volume.



# The structure of the Earth

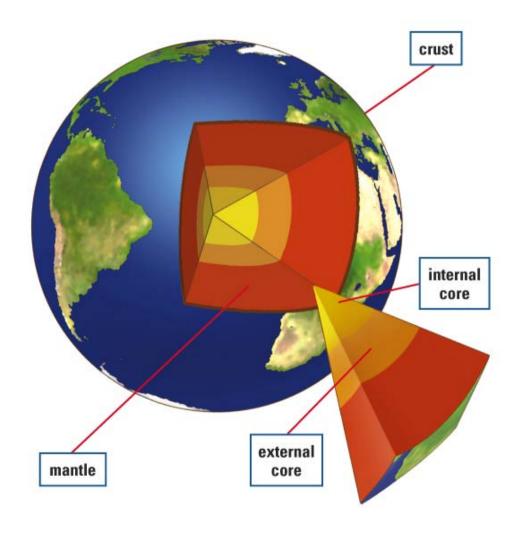






# The structure of the Earth







#### 1.2. The Earth 🖪 crust



- The Earth's crust is thicker in some places, forming the continents. It is thinner in some places, and lies under the oceans.
- The Earth's crust is not flat. It forms the mountains, valleys, basins and plains that make up the Earth's relief.
- The Earth's relief is always changing because of the action of internal and external forces.
- External changes to relief are caused by the action of water, wind or humans.



#### 1.3. Continental drift

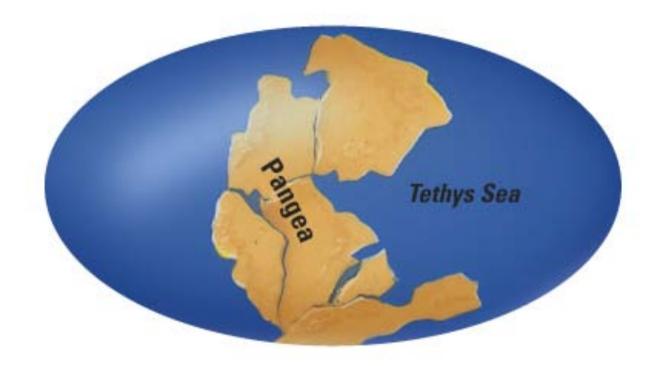


- Continental drift is the theory that 200 million years ago there was a single continent called Pangea on the Earth which moved and broke up.
- Tectonic plates are the huge pieces of rock produced when this continent broke up.
- When two plates collide, one can rise and form a mountain range and the other can sink under the ocean and form an oceanic trench.
- The places where plates meet can produce volcanoes and earthquakes.



# Continental drift





A. 200 million years ago



### **Continental drift**





B. 65 million years ago



# **Continental drift**





C. The continents today



# 2. Internal forces in the formation of relief



#### 2.1. Internal forces

- Causes and effects of an earthquake
- Structure of a volcano







#### 2.1. Internal forces

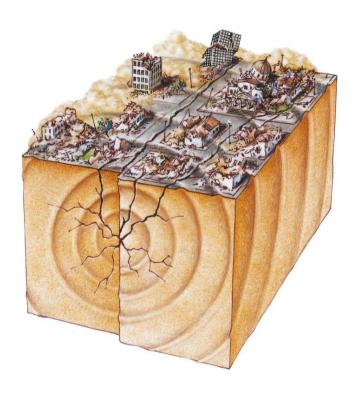


- The internal forces of the Earth cause earthquakes and volcanoes.
- Earthquakes are the result of vibrations, or seismic waves.
- Volcanoes are cracks in the Earth's surface. Pressure forces magma to the surface through these cracks.
- During a volcanic eruption, gases, ash, rocks and lava are expelled. When these materials cool, they form the volcano's cone.



# Causes and effects of an earthquake

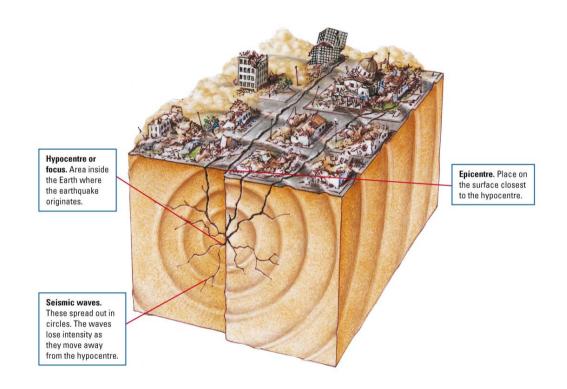






# Causes and effects of an earthquake

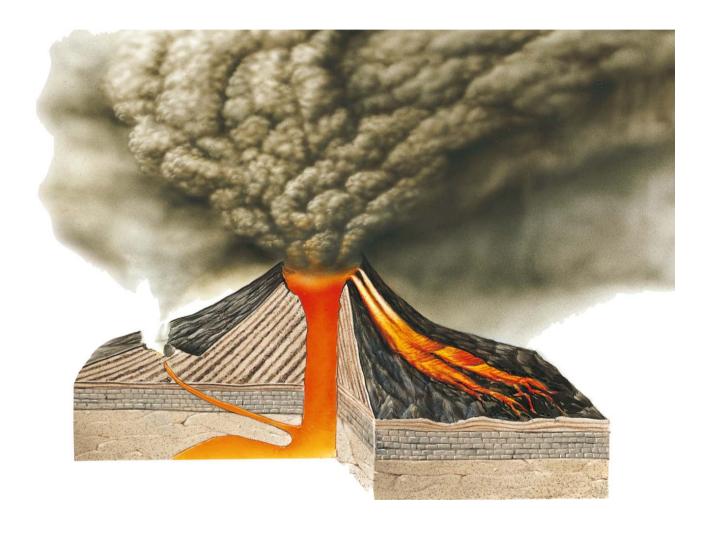






# Structure of a volcano

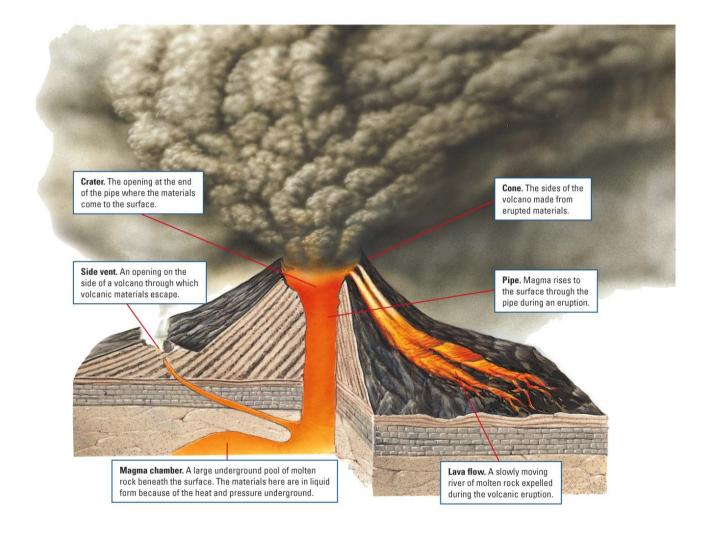






### Structure of a volcano



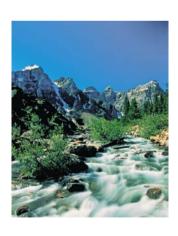




# 3. External forces in the formation of relief



#### 3.1. External forces









#### 3.1. External forces in the formation of relief



- Relief is not only the result of movements inside the Earth, but also external forces, such as water or wind.
- Water is the main external agent acting on the land. The effects of rain, ice, waves, tides and marine currents can be intense and diverse.
- Wind erodes rock and transports small particles, such as sand and dust, to other places.
- The roots of trees penetrate the ground and can split rocks. They can also hold the soil and rocks in place.



### 4. The continents



#### 4.1. The division of the world into continents

• Continents and oceans





#### 4.1. The division of the world into continents

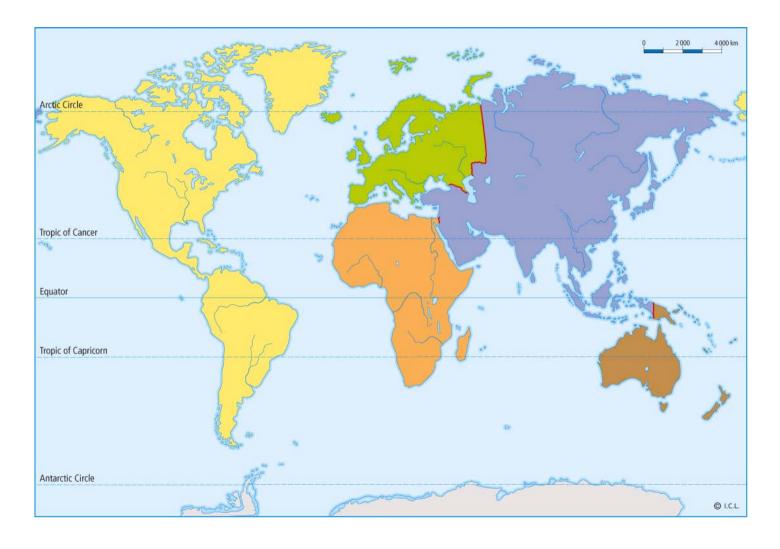


- Continents are enormous landmasses separated by oceans. There are six continents:
- Africa
- America
- Asia
- Europe
- Oceania
- Antarctica



# **Continents and oceans**

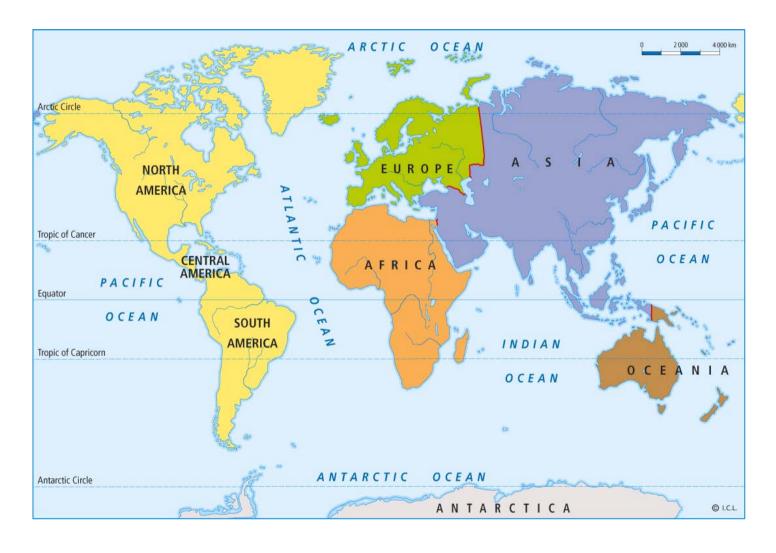






### **Continents and oceans**





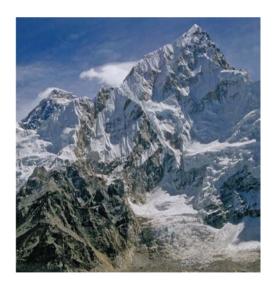


# 5. The Earth Is relief



### 5.1. The relief of the continents

• The relief of the continents





#### 5.1. The relief of the continents

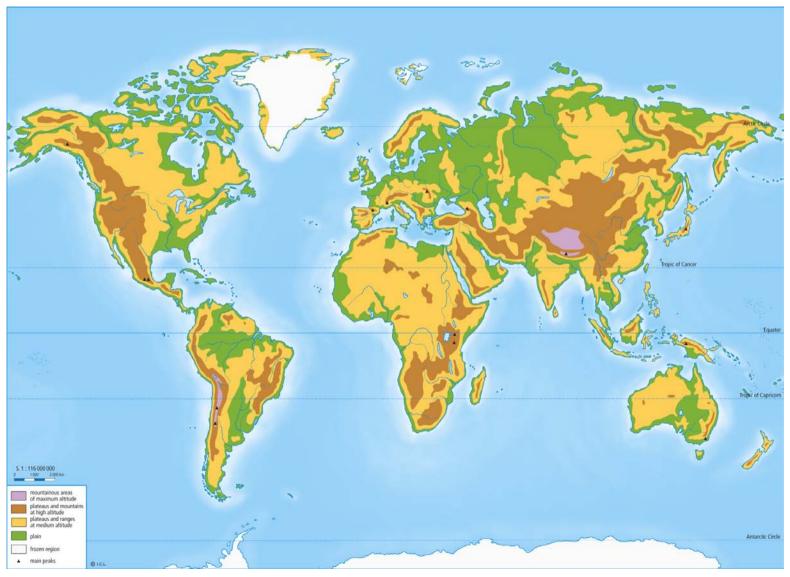


- The surface of the continents is not smooth or uniform. The relief includes:
- mountains
- plains
- plateaus
- valleys



### The relief of the continents







### The relief of the continents







# 6. Europe Is relief



# **6.1.** The European continent

• The European continent





# **6.1.** The European continent

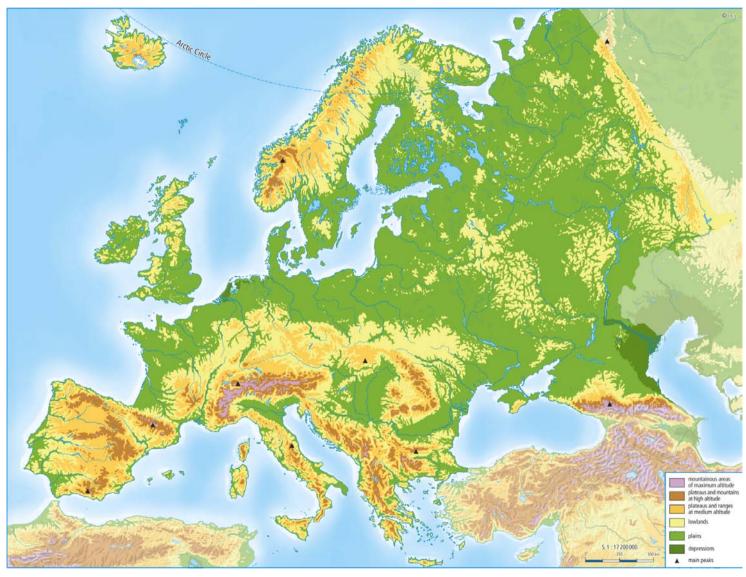


- Europe is a small continent.
- Europe is a peninsula of the larger Eurasian continent and it is surrounded by different oceans and seas.
- There are three main features of relief in Europe: the Great European Plain, the plateaus and old mountain ranges and the young mountain ranges.



# The European continent







## The European continent







# 7. Spain Is relief



#### 7.1. The relief of the Iberian Peninsula

# 7.2. The relief of the archipelagos

• The relief of Spain







- The Iberian Peninsula is in the south-west of Europe.
- The Meseta is the central feature of relief on the peninsula. The Sistema Central and the Montes de Toledo are in its interior.
- The coasts are high and regular, interrupted by large stretches of sandy coastline.



# 7.2. The relief of the archipelagos



- The relief of the Balearic Islands can be considered a continuation of the peninsula.
- The relief of the Canary Islands is hilly and of volcanic origin.



# The relief of Spain







# The relief of Spain





