Social Science Cambridge Social science Second Edition Pupil's Book with eBook **CAMBRIDGE** 

## SOCIAL SCIENCE 4



Welcome

Page 4

How does the Earth change?

Page 6

Why does the weather change?

Page 16

How much of the Earth is water?

Page 32

What is made in Spain?

Page 42

What are the periods of Prehistory?

Page 56

6 How did the Iberian
Peninsula become
Spain? Page 70

 The three spheres of the Earth

· The Earth's hemispheres

· Changing seasons

 The Earth's movements: rotation and revolution

Natural disasters

The weather

Weather forecasts and maps

· Factors affecting climate

The world's climate zones

• Different climates in Spain

Climate graphs

Climate change

The hydrosphere

Bodies of water

• Stages of a river

• The water cycle

Classification of populations

Sectors of the economy and occupations

 Areas for sectors operating in Spain Advertising techniques

 The role of consumers in the economy

· The Stone Age

• The Metal Ages

Carthaginians

 The Celts and the Iberians

 The first colonising peoples: the Phoenicians, the Ancient Greeks and the  The Roman conquest of the Iberian Peninsula

 The Romanisation of the Iberian Peninsula

Our Project 1: Taking action today for tomorrow pp 30–31 Our Project 2: Worthy world pp 54–55

Our Project 3: No difference between us pp 82–83

#### **Documentaries**

• Observe the three layers of the Earth.	• Rotation and revolution
• Make a wind vane.	• Weather and climate
• Find out how the water cycle works.	• Bodies of water
• Make a model car.	• The story of a product
• Make a Neolithic pinch pot.	<ul> <li>Prehistoric tools: from stone to metal</li> </ul>
• Build a Roman road.	• Roman ruins in Spain



# WELCOME TO CAMBRIDGE SOCIAL SCIENCE

Welcome to the amazing world of social science.





I'm Zack and I want to be a geographer!



Hi, I'm Hana. I want to be a marketing executive!



Hello! I'm Roberta. I want to be a meteorologist.



Hey! I'm David and I want to be an environmental engineer.







Can you match the jobs to the children?



Come with us and find out:

- what the three main spheres of the Earth are.
- how climate changes in different parts of the world.
- how to tell which direction the wind is blowing.
- why the water cycle occurs.
- how to make a Neolithic pinch pot.
- what Roman roads were made of.



I'm Diego and I want to be a museum curator!



Hello! I'm Amber and I want to be an anthropologist.



# HOW DOES THE EARTH CHANGE?

## Look and

Can you name the three natural disasters?





Which type of map shows information about mountains and bodies of water?





What causes day and night?

**Song**Round and round









What causes the seasons to change?

DOGUMENTARU

Rotation and revolution

When I grow up, I want to study geography! Come with me and learn about:

- parallels and meridians.
- why we have day and night.
- why and when the seasons change in your country.



## WHAT IS THE EARTH MADE UP OF?

the three spheres of the Earth!



Of the eight planets in our solar system, the only one that we know is suitable for living things is the Earth. The Earth is our home, but what is it made up of? The Earth has **three main spheres**: the geosphere, the hydrosphere and the atmosphere.

The **hydrosphere** is the liquid part of the Earth. This includes all the water on and above the Earth's surface: the oceans, seas, lakes, rivers and even clouds.

The **geosphere** is the solid part of the Earth. This includes all the land on and below the Earth's surface. The continents are part of the geosphere.

The **atmosphere** is the gaseous part of the Earth. This consists of the layer of gases that surround the planet. The atmosphere is very important: it helps all living things to survive and protects them.

Find a telescope hidden somewhere in this unit.



Do you remember the names of the five oceans and the seven continents?

## What have I rearnt?

Match the definitions to the spheres of the Earth.

- 1 atmosphere •
- 2 geosphere •
- 3 hydrosphere •
- contains water on and above the Earth's surface
- includes all the land on and below the Earth's surface
- consists of layers of gas around the planet

## THE SPHERES OF THE EARTH

### Hands On...

#### Before you start

We know the Earth has three main spheres: the hydrosphere, the geosphere and the atmosphere.

#### **Materials**

small transparent bottle, funnel, water, sand or gravel, oil

#### **Method**

- **1** Pour the same amount of water, sand and oil into the bottle.
- **2** Put the lid on the bottle and shake it vigorously.
- **3** Leave the bottle for about 15 minutes and observe what happens.

#### **Conclusions**

What is represented by each of the materials?

Which sphere of the Earth is most difficult to represent?

What do you think the biosphere is?



