

About your Biology and Geology ESO 1 book



Biology and Geology 1 is organised into three **blocks**. Each content block is divided into **units**.

BLOCKS

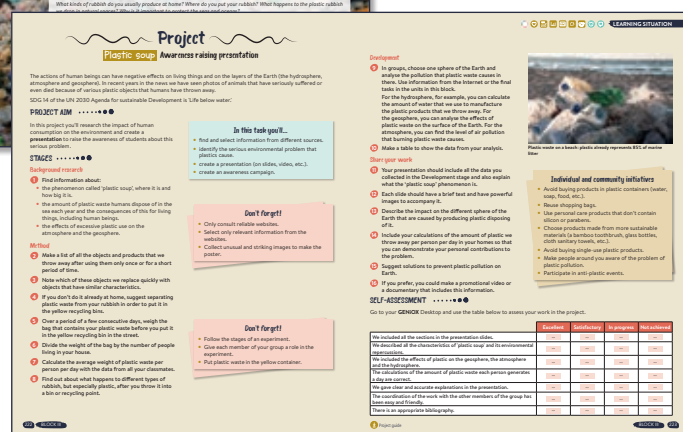
The **basic knowledge areas** are covered in three blocks called **The diversity of living things I**, **The diversity of living things II** and **The systems of the Earth**. The content is dealt with in the units of each block as well as in the **Work on your key competences** tasks at the end of each unit.

The block introduction includes an overview of the topics covered in the units in that block and the different **learning situations** in each of them. It also contains a brief presentation of the project that comes at the end of the block.



To end each block there's a **Learning situation**. Here you'll carry out a **project** that will allow you to put into practice what you've learned during the block as well as applying your **creativity**, working both **individually** and as part of a **group**.

The **Work on your key competences** tasks at the end of each unit will also help you with this project.



You can access the **Project guide** via your **GENIOLX Desktop**. This helps you to carry out the different stages and complete the self-assessment form.

UNITS

Unit introduction

This is composed of a number of elements.

A list of the contents and sections that are in the unit.

An introduction to the **Work on your key competences** task, which is the **Learning situation LS** at the end of the unit.



The introductory texts have been selected to foster **individual growth** (emotional, social and academic) and to encourage you to respond to the **challenges facing the world today**: the achievement of the Sustainable Development Goals, children's rights, gender equality and digital competence. They'll also help you to develop the personal, academic and professional **competences** you'll need in the future.

In **Think and discuss**, there are activities that promote reflection on and debate about the content of the text.

In addition, we suggest that you go to your **GENIOLX Desktop** to access **Oxford Investigation**. You can work with this digital resource, which includes tasks and simulators, throughout the unit.

These boxes introduce interesting facts or ask questions based on everyday life, experiments or images. This helps you to deduce what content will be covered in the section.

Revision activities

The **Revision activities** are organised by topic. They include a wide variety of different types of activity that cover the different key competences and all of them cover the STEM and plurilingual competences.

In the **Study skills** section, you'll make a summary of the unit, a concept map and a scientific glossary. You'll be able to use all of these resources to **review** the contents of the unit.

In this section you'll discover how to use laboratory instruments and carry out experiments following the steps of the scientific method.

The **Learning situation in Work on your key competences** enables you to put the contents you've studied into practice in an integrated manner, as well as allowing you to relate them to the Sustainable Development Goals.

Throughout the unit there are **LS** activities, which are connected to the Learning situation.

On your **GENiOX Desktop** there's an **Experiment video** and a **Lab report**, which you can use to write up your experiment and record your results.

There's also a **Task guide**, which includes the self-assessment rubrics.

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


Symbols used in your book







Some sections and activities in this book are specifically designed to develop the **key competences** and to **focus on** aspects of your **individual development** and the **challenges of today's world**. The symbols below help you to identify these sections and activities.

Remember that Biology and Geology mainly works on the STEM competence. This means that all of the activities in this book develop that competence, as well as the plurilingual competence.








KEY COMPETENCES

-  Linguistic competence
-  Plurilingual competence
-  Competence in science, mathematics, engineering and technology (STEM)
-  Digital competence
-  Personal and social competence and learning to learn
-  Civic competence
-  Entrepreneurial competence
-  Cultural awareness and expression

FOCUS ON










-  Children's rights
-  Gender equality
-  Physical and emotional wellbeing
-  Digital competence
-  The world of work
-  The Sustainable Development Goals

OTHER SYMBOLS

-  LS Learning situation
-  Speaking activity
-  Group activity and cooperative learning
-  Listening activity
-  STEAM task (interdisciplinary activity)
-  Video
-  Downloadable material

The GENiOX Desktop

The **GENiOX Desktop** is a digital space where you can access your **digital book**, as well as a wide range of **resources** in different formats (such as video, HTML and PDF). These will help you with the tasks and processes that are the basis of your learning: observation, analysis, consolidating and expanding your knowledge, study skills and exam revision.

-  **Unit presentation**
-  **Oxford Investigation**, which works on the contents digitally through tasks, animations and simulators
-  **Animations** that help you to visualise processes and mechanisms in a dynamic way
-  **Passnotes**: summarised version of each content section with audio
-  **Simulators** that allow you to work in a virtual laboratory
-  **Experiment video** of the Science practical
-  **Digital revision activities** to test your knowledge in an interactive format
-  **Concept maps, dictionary worksheets** and **scaffolding worksheets**
-  **Weblinks** to expand your knowledge and find information for research tasks

The Sustainable Development Goals (SDGs)

The UN launched the Sustainable Development Goals (SDGs) in 2015 for its member states to adopt. The SDGs aim to end poverty, reduce inequality and injustice and tackle climate change for everyone in the world.

To achieve the Sustainable Development Goals, we need to remember these three things.

- The **deadline**: This is 2030.
- The **targets** and **indicators**: the 2030 Agenda divides each goal into targets and provides indicators to measure progress.
- The **agents of change**: everyone on the planet has a role to play in meeting the Sustainable Development Goals. This includes governments, institutions and the whole of civil society.

These are the 17 goals established by the UN for **global development within planetary boundaries**.

Access your **GENiOX Desktop** to discover the aims of each of the Sustainable Development Goals.

