









WELCOME TO CAMBRIDGE SCIENCE PATH

Course objectives

- Cambridge Science Path takes students on a journey as they discover the wonders of biology, chemistry, and physics. Students are introduced to topics at a manageable pace, so they can engage with, enjoy, and fully assimilate new concepts.
- Students learn about and cement their understanding of new concepts through projects. There is an *Investigate* project that runs through each unit, in which students review and expand upon the concepts presented in the unit. Each individual stage of the *Investigate* project feeds into the project finale, in which students present or produce something to demonstrate their understanding of the topic.
- Students also engage with Science in a hands-on way by conducting experiments. This practices critical-thinking skills and promotes collaborative learning.
- Students learn about new concepts
 through discovery. In Cambridge Science
 Skills, learner autonomy is encouraged
 through the inclusion of interesting facts
 and thought-provoking questions. Our aim
 is for students to be inspired by the fun
 and wondrous world of Science.
- Collaborative learning is also encouraged through the *Investigate* projects that students carry out in pairs, in groups, and as a class.

- The course provides students with the linguistic support that they require to study Science in a second language.
 The course helps students develop their speaking, listening, reading, and writing skills. The unit projects give students practice of a range of skills and sub-skills
- Cambridge Science Skills provides students
 with practice of the Cambridge English
 Qualifications for young learners.
 Level 1 provides practice of Pre-A1
 Starters question types.
- Mixed-ability assessment provides teachers with support for students of different levels within the same class. They focus on lower- and higher- order thinking skills, as well as critical thinking.
- Cambridge Science Path aims to help students develop the following key competences: linguistic competence; mathematical competence and basic competences in science and technology; digital competence; learning to learn; social and civic competences; initiative and entrepreneurship; and cultural awareness and expression.







Course components

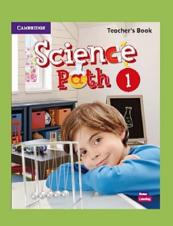
Student's Book: each unit includes a project, experiments mixed-ability assessment and practice of the Cambridge English Qualifications for



Class audio: provided through
Presentation Plus, as well as
being available to download at
www.cambridge.org/scienceaudio.



Teacher's Book: includes useful suggestions for activities at each stage of the lesson, answer keys, audio scripts, and track numbers for the audio.

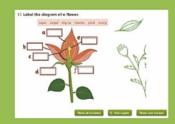


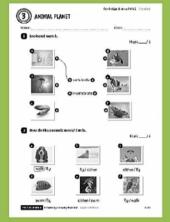
Science Path Presentation

Plus: includes an interactive, digital version of the Student's Book with a variety of features to help students cement their understanding of key concepts

- flashcards in digital format
- answer keu
- audio with scripts available
- mixed-ability tests
- documentary videos for each unit to engage students in a visual way and allow them to see

 Natural Science in action!





Classroom materials: include posters and a full bank of flashcards to be used across levels. The posters consolidate learning by helping students engage with Science vocabulary and concepts in the classroom.



MEET OUR SCIENTISTS

Objective:

Students will meet the characters that represent each unit of the book. Through them they will become familiar with the main topics and skills that they will study. By discussing the images and text on these pages, they will become curious and engaged with the study of Natural Science. They will see how they too become scientists as they predict and experiment their way through the book and record their journey with their passport.

Key vocabulary

animals, family, food, friends living things, plants, sports, the human body, x-ray

Warm up

Write on the board: animals, friends and family, plants, sports, the human body, in different colors. Ask students to give you some examples of each – for the human body, elicit parts of the body. Then say, e.g. *I like animals.* What do you like? Tell a partner.

Main concepts

Look at the page and ask students
 What is a scientist? Elicit that scientists
 like to discover new things and solve
 problems by doing experiments.
 (This is a broad, general description!)





- Point to each character in turn and have students point too. Say What's the name of the character? What does he/she like? Ask Which words tell you what he/she likes?
- Ask students to look at the boy with the flower. What is he doing? Elicit the process from students and highlight the Scientific method.
- Explain that as they finish a unit, they will put their fingerprint in the passport.

Learn more

- Write on the board, I'm _____. I like
 ... Give an example and encourage students to write and draw their own sentence and picture in their notebook or on a piece of paper.
- Encourage students to practice saying their sentence and to show and tell a classmate



MOVE YOUR BODY!

Learning objectives

By the end of this unit, your students will have achieved a greater understanding of the following concepts:

- the three main body sections and the external parts of the human body
- · what muscles, bones, and joints are
- the five senses and their corresponding organs

Competences

This unit covers the following competences

- · Linguistic competence
- Mathematical competence and basic competences in science and technology
- Digital competence
- Learning to learn
- Cultural awareness and expression

Key vocabulary

Parts of the body: ankle, bone, elbow, hip, joint, knee, muscle, neck, shoulder, wrist

Main body sections: head, limbs (arm, bottom, fingers, foot, leg, toes) torso (tummy)

Parts of the face: cheeks, chin, ears, eyebrows, eyelashes, eyes, mouth, nose, tongue

Five senses: hear, see, smell, taste, touch

Cambridge English Qualifications practice

You will find *Pre-A1 Starters* activity types in the following exercises:

Student's Book, Page 102, Activity 2 – Reading and Writing Part 3

Throughout this unit, you will find the following *Pre-A1 Starters* vocabulary:

arm, body, ear, eye, face, foot/feet, hair, hand, head, leg, mouth, nose, person/people, see





Materials needed for projects:

- Skeleton worksheet (download from Digital resource bank), split pins
- Mini book worksheet (download from Digital resource bank), pictures of students' faces

Materials needed for experiment:

Lemon peel, mint leaves, an onion, an orange, liquid soap, vinegar

Materials needed for other activities:

A selection of fruit

Experiment

The *experiment* provides your students with the opportunity to explore their sense of smell by mixing together different items. Students will use the scientific methods of prediction, experimentation, and conclusion. In addition, they will get creative by mixing different products to create their own potions.

Other Resources

- Interactive activities
- Flashcards: parts of the bodu, parts of the face
- Song: Bodu parts
- Chant: Five senses
- Video documentary: Incredible bodies



UNIT 1 PAGES 6-7

Objective:

Students will talk about parts of the body, the five senses, and identify feelings using a birthday party as a backdrop. They will connect previous knowledge with new concepts.

Key vocabulary

birthday party, body, dance, happy, sad

Warm up

- Ask students to think about their last birthday party and tell another student: Where did you celebrate it?
 Who was at the party? What was your favorite present?
- Ask students to look at the scene and describe what they can see.
 Encourage them to use the structure
 I can see ...

Main concepts

- Ask students What do you think we are going to learn about in this unit? –
 We are going to learn about the body.
- Ask individual students to read out the questions on the page and elicit answers. Then, ask students to read out Hello! I'm Little Franklin. I'm six today. Ask them to raise their hands if they are six.
- Ask other questions about the scene:
 Who is looking at the presents? Little
 Aristotle (is looking at the presents). Ask
 students if they would like a piece of the cake and what they think it tastes like.





Learn more

- Sing the song Body parts
 with actions
- Ask students to point to different objects in the scene: Point to the ... table, lamp, presents, sofa, pizza, balloons, window, cake, rug, etc.

Song

The song focuses on different parts of the body and their movement.

Documentary

The documentary focuses on internal and external parts of the body including bones, muscles, and joints. It also covers the five senses.

UNIT 1 PAGE 8

Objective:

Students will learn the difference between bones, muscles, and joints. They will be able to identify the principal joints in the body.

Key vocabulary

ankle, bones, elbow, hip, joints, knee, muscles, neck, shoulder, wrist

Tip

Play Simon says — asking students to move different joints. Then, students take turns to call.

Warm up

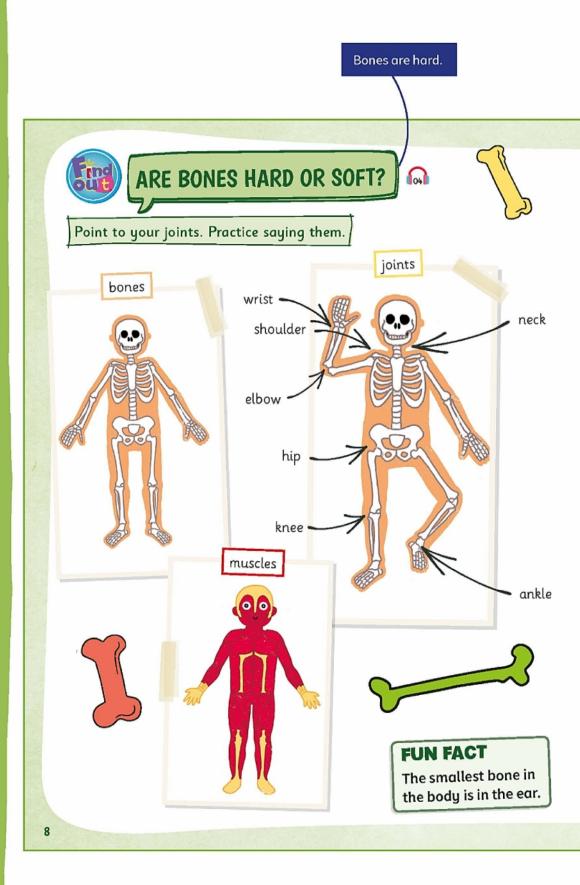
 Ask students How do you move your bodu? What's inside your bodu?

Main concepts

- Ask students to read and say the names of the joints. Then, ask them to point to their own joints and say the names. They can observe the differences between bones, muscles, and joints by feeling their own arms or legs. Demonstrate for students.
- Read the Fun Fact. Explair as necessaru.

Learn more

Pique students' curiosity by asking We know the smallest bone in our body, but which is the biggest? – Femur.





2 The skeleton needs joints. Work together.



Bones are hard. Joints and muscles help us move. My ankles and my knees are joints.

UNIT 1 PAGE 9

Objective:

Students will understand how bones and joints work together.

Key vocabulary

ankle, bones, joints, knee, muscles

Warm up

ankle

bones

joints

knees

muscles

Unit 1 9

Show students the box and ask What's in the box? Give students time to guess and answer, then provide clues, e.g.

They are hard. Open the box and show students what's inside

Main concepts

- Say Let's make a skeleton! How
 can we put it together? If students
 suggest using glue, paste a pair of
 arm bones together and show them
 that they don't move. After taking
 students' suggestions, say It needs
 joints. Show an example.
- Ask students to cut out and make the own skeletons using the template.
- Ask students What would happen if we didn't have joints? Ask students to move their bodies without using their joints.

Learn more

- Read My dictionary as a class.
 Ask students to trace the words.
- Ask students to read and complete the Investigate and trace box individually.

UNIT 1 PAGE 10

Objective:

Students will identify and locate parts of the body.

Key vocabulary

arm, bottom, fingers, foot, head leg, limbs, toes, torso, tummy

Warm up

Point to different parts of your body and ask students to name any that they know. Then, point to and name all the parts. Students copy your actions and repeat the words.

Main concepts

- Ask students to read the lesson title and the words for parts of the body.
 Draw their attention to the different colors for the head, torso, and limbs Ask What are limbs? – Arms and legs.
 Point to the lesson title and ask
 Can you answer the question now?
- Read the Fun Fact. Clarify the meaning of long using gestures and/or illustrations.

Learn more

- Ask students Can you remember the names of the joints in your leg? -Knee, ankle.
- Sing the song Body parts

