

# Teacher's Book

With Downloadable Audio

Experience Better Learning





# SCIENCE SKILLS 1

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## WELCOME TO CAMBRIDGE SCIENCE SKILLS

### **Course objectives**

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

- The course provides pupils with the linguistic support that they require to study Science in a second language. The course helps pupils develop their speaking, listening, reading and writing skills. The unit projects give pupils practice of a range of skills and sub-skills.
- Cambridge Science Skills provides pupils 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 pupils of different levels within the same class. They focus on lower- and higher- order thinking skills, as well as critical thinking.
- Cambridge Science Skills aims to help pupils 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**

Pupil's Book: each unit



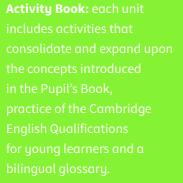


**Plus:** includes an interactive,

Science Skills Presentation

Classroom materials: include





**Class audio:** provided through







### MEET OUR SCIENTISTS PAGES 4-5

#### **Objective:**

Pupils 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**

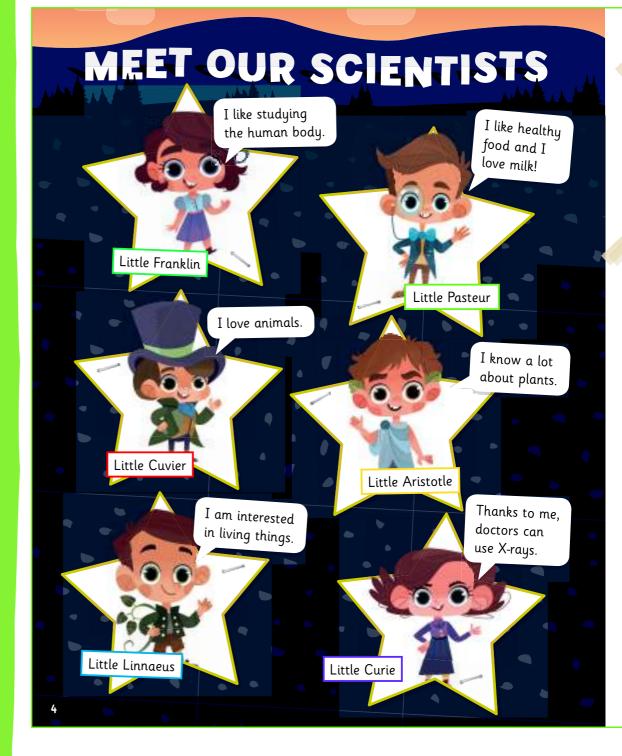
animals, family, food, friends, living things, plants, sport, the human body, x-ray

#### Warm up

Write on the board: animals, friends and family, plants, sport, the human body, in different colours. Ask pupils 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 pupils 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 pupils 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 pupils to look at the boy with the flower. *What is he doing?* Elicit the process from pupils and highlight the *Scientific method.*
- Ask pupils to circle the topics they like.
- 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 pupils to write and draw their
   own sentence and picture in their
   notebook or on a piece of paper.
- Encourage pupils to practise saying their sentence and to show and tell a classmate.



## **MOVE YOUR BODY!**

#### **Learning objectives**

By the end of this unit, your pupils 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

#### Competences

This unit covers the following competences:

- Linguistic competence
- Mathematical competence and basic competences in science and technologu

- the five senses and their corresponding organs
- 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: Pupil's Book, Page 79, Activity 2 – Reading and Writing Part 3 Activity Book, Page 4, Activity 6 – Reading and Writing Part 3 I hroughout this unit, you will find the following *Pre-A1 Starters* vocabulary: arm, body, ear, eye, face, foot/feet, hair, hand, head, lea, mouth, nose, person/people, see



# QL

#### Materials needed for projects:

- Skeleton worksheet (download from Digital resource bank), split pins
- Mini book worksheet (download from Digital resource bank), photos of pupils' 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 pupils with the opportunity to explore their sense of smell by mixing together different items. Pupils 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.

#### **Mindful time**

Each unit has a mindful time feature that encourages pupils to relate learning to their feelings and emotions, their relationships with classmates, and their well-being.

In this unit, pupils focus on their breathing and connection to the world around them. An audio track *(track 02)* is available to introduce the breathing activities.

#### **Other Resources**

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

### UNIT 1 PAGES 6-7

#### **Objective:**

Pupils 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<sub>.</sub> happy, sad

#### Warm up

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

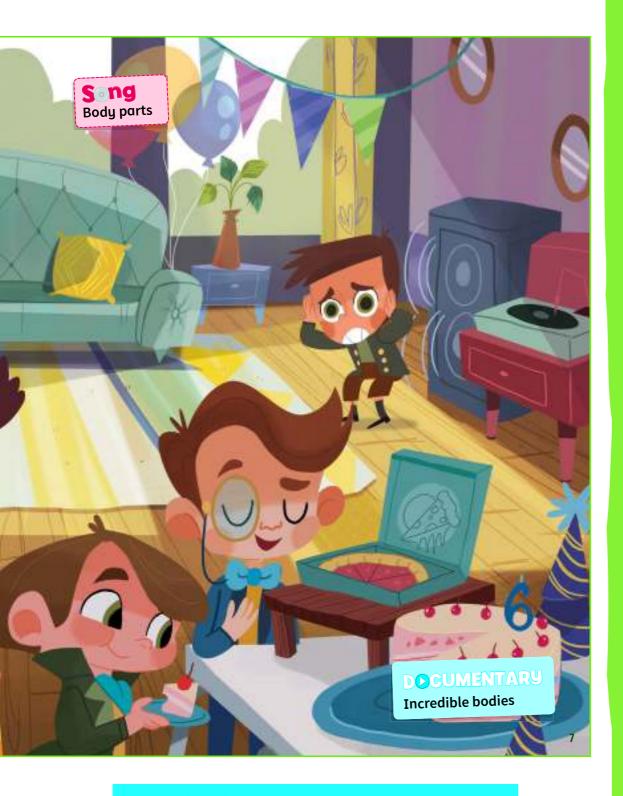
#### **Main concepts**

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



#### **Mindful time**

Ask pupils to pay attention to how they breathe in and out, and how the air travels to their tummies. Ask pupils to sit or stand with a straight back, shoulders down and to breath in through their noses and out through their mouths, deeply, to their tummies, three times. The audio *(track 02)* can be used to help create a feeling of calm.



The audio (track 02) can be used throughout the course to achieve moments of calm, in which pupils focus on their breathing and connect with the world around them.

#### Learn more

- Sing the song *Body parts* with actions.
- Ask pupils 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.