

Cambridge Primary Science



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Beyond Basics, Reset Education

Marshall Cavendish Education Cambridge Primary Science (2nd Edition)

Marshall Cavendish Education (MCE) Cambridge Primary Science (2nd Edition) series fulfils the new Cambridge Primary Science curriculum framework (0097). The series is designed to help young learners build a sound understanding of scientific concepts and to become young scientists who make a difference to the world with their knowledge and skills.

Within this series, you will find Singapore's tried-and-tested methodologies embodied in high-quality resources that support the Cambridge Primary Science curriculum framework. This programme includes a range of supporting resources, customisable for both online and face-to-face learning, in order to consistently deliver outstanding learning and teaching experiences.

The 2nd Edition has retained the active learning approach, easy-to-understand language, and rich visuals. It builds on the previous edition by incorporating the new Thinking and Working Scientifically strand which aims to nurture students into active learners who understand the role science plays in the world around them.

Product Architecture

STUDENT'S BOOK



ACTIVITY BOOK



TEACHER'S GUIDE



Additional Digital Resources*

- o Student's Book
 - Annotatable Enhanced eBooks (Tagged with interactive digital resources)
- o Activity Book
 - Annotatable eBooks
- o Digital Teacher's Guide
 - · Scheme of Work (Editable)
 - · Lesson Plans (Editable)
 - Teaching Ideas and Strategies (Editable)
 - Suggested Answers for Student's Book and Activity Book
- o Homework Worksheets (Editable)
- o Lesson PowerPoint Slides (Editable)
- o Depository of Licensed Videos

*These resources will not go through the Cambridge International endorsement process.



Why choose MCE Cambridge Primary Science (2nd Edition)?



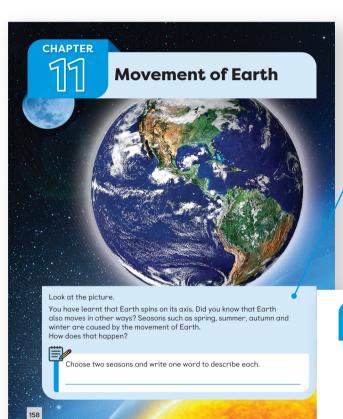
- Offers the best of both worlds to equip students for successful and meaningful living in the 21st century
- Provides effective support and strategies for English as a Second Language (ESL)
 learners and educators
- Promotes relatability through real-life contexts
- Delivers a fun and engaging hybrid learning experience

 $\mathbf{2}$

Offers the Best of Both Worlds to Equip Students for Successful and Meaningful Living in the 21st Century

This series combines Cambridge International's global standard with Singapore's tried-and-tested methodologies. It has retained the active learning approach and incorporated the new Thinking and Working Scientifically strand. This will help to develop learners' scientific skills, allowing them to master 21st century skills such as critical and creative thinking skills.

Well-crafted questions embedded within the content and investigations support scientific inquiry. This will nurture active learners who think and work like scientists. This series also provides opportunities for self-directed learning and reflective thinking.



Thinking Cap

Question prompts encourage learners to reflect and think about what they already know, allowing educators to evaluate their prior knowledge. Learners can exercise higher-order thinking and model reflective behaviour, like a Cambridge learner.

Let's Explore!

Hands-on activities, which can include group or peer discussion, are easily conducted in class, allowing learners to *explore concepts* before learning the facts and build 21st century skills, such as communication and collaboration.

Chapter Opener

Inquiry questions, which require direct answers, opinions, or explanations, are used to trigger discussions pertaining to the topic and *encourage deeper* thinking related to the concepts.

In this section, I will...

A list of learning outcomes helps learners to be *aware of their* learning pathway and success criteria for each section.



Flowers

In this section, I will

- learn that not all plants produce flowers
- identify parts of a flower
 describe the functions of some parts of a flower

- sort living things by observation complete a key based on differences that can be observed learn that a model shows the important features of an object

Thinking cap





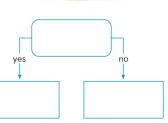
Let's Explore!

Do all plants have flowers? In groups, take a walk around the

school garden or a nearby garden.

- I. Ask yourselves the following
- What do you look out for to tell if something is a plant?
- What are some of the common parts that all plants have?
- Do all plants have flowers?
- 2. Find out the names of the plants in the garden from your teacher. Complete the key to sort the plants into two groups





legalean

What Are Gaseous Substances?

In Stage 3, you have learnt that substances can exist as solids, liquids and gases. Substances that are gases are said to be in the gaseous state.

When you squeeze a sponge under water, you will observe bubbles. The bubbles are made of air. The air around us is a mixture of gases such as nitrogen, oxygen, and small traces of carbon dioxide, water vapour and hydrogen. These substances exist as gases at room temperature, which is the temperature of our surroundings.



Let's Learn

Apart from explanation of the key points, inquiry *questions* are embedded within the main text to promote thinking and discussion.

Can you name other substances that are gases at room temperature?



Problem-based Learning

These activities will encourage learners to think critically and *creatively* for possible solutions to *real-life* problems that affect them, their community, or society.



Problem-based Learning

Help pollinate the plants!



Many of the plants grown for food depend on pollination. Honeybees play an important role in pollinating the flowers, but their population is reducing. We need to find other ways to pollinate flowers so we can produce enough food.

- I. Work in groups. Design a machine that can be used for pollination. It could be hand-powered or wind-powered, or use another way to transfer pollen.
- 2. List down a scientific question that your group wishes to investigate in order for you to understand the pollination process better. Select the appropriate scientific enquiry to use to find the answer
- 3. Which type of scientific enquiry has your group chosen to use? Why?
- 4. Present your idea or model to the class.

Can you think of any other ways we can help



Science at Work 🚇

The Italian astronomer Galileo discovered four of Jupiter's moons in 1610.



Io, Europa, Ganymede and Callisto were the first four moons found by Galileo. More than 70 moons of Jupiter have been discovered over the years, and over 50 of them have been named. There may also be more moons that have not been discovered yet.

Carry out research to find out how our understanding and knowledge of Jupiter's moons have changed over time.
Create a timeline to show what you have found.

Science at Work

Provides information to relate the topic to science careers or everyday life. Research questions are included for further exploration to extend learning.

Tech Talk!

Features modern technology that can be used to solve issues related to the topic and includes a *critical thinking question* for learners to *ponder and conduct research*.

Check Your Learning

Formative assessment
questions at the end
of a section help
to check learners'
understanding.

I Can

A list of statements which summarise what learners should know at the end of a section. Learners can *check on their progress* through this *reflective exercise*.

Tech Talk! 🔑



Many scientists look at adaptations of animals to come up with new inventions. There is a type of glue that works underwater. This glue is modelled after how mussels have adapted to living underwater. The glue is made to work well in water so that it can be used to fix cracks in aquariums and swimming pool floors.

Find out what other useful products have been modelled after adaptations that plants and animals have.

Check Your Learning



Describe two adaptations of plants and animals in hot and cold environments.

Tick (✓) to show what you can do.

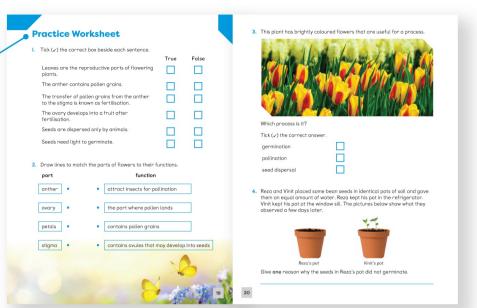
I can describe how plants and animals are adapted to different

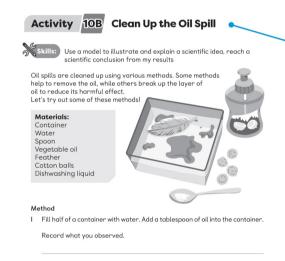
I can use science to support my points of view in discussions.

Activity Book Activity 3A, p. 2I

Practice Worksheet

End-of-chapter questions that are available in various formats, such as fill-in-the-blanks and tick the right answer(s), can help consolidate learning and assess learners' overall understanding of concepts.





- 2 Put a feather into the oily water. Then remove the feather and observe what the oil has done to it.
- a Record what you observed.
- b Based on your observations, how do oil spills affect bird

Activity Worksheet

A variety of engaging activities such as hands-on exercises and research allow learners to apply their knowledge in practical scenarios and encourage them to think and work scientifically. They are designed to help learners develop scientific skills, as well as 21st century skills such as critical thinking, creativity, and communication.

Let's Review

Wrap up each chapter with a variety of questions including application-based and structured questions, which reinforce learning and facilitate assessment for learning.

P L	Let's Review					
ı	Aminah is preparing to run a marathon. Which of these would provide her with the most energy for the race? Circle the correct answer.					







 $\mathbf{2}$ $\,$ Some people do not have a balanced diet. This can cause problems with their health.

Draw a line to match the diet to the problem it can cause

diet			problem
too much fat	•	•	not much energy
too much sugar	•	•	heart disease
not enough protein	•	•	tooth decay
not enough carbohydrate	•	•	poor growth

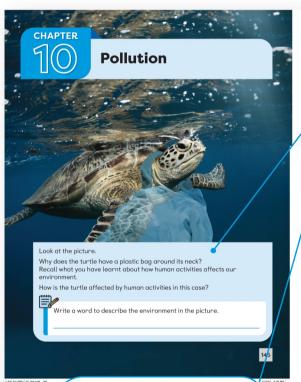
3 Erin wants to eat cupcakes after every meal. Give **two** reasons why this could be unhealthy for Erin.



Provides Effective Support and Strategies for ESL Learners and Educators

ESL learners and educators are well-supported in their learning and teaching through this series. With the right language pitch and language support features such as Science Words and Word Boost, ESL learners can easily understand the content and grasp concepts quickly. Through this series, they can expand their vocabulary and are guided to apply them in their answers. Vibrant visuals are used to simplify complex concepts by helping learners visualise them, promoting a better understanding.

ESL educators will receive support from the effective strategies and suggested ideas through the lesson plans. The overall content design and scaffolding in the series ensure that they can deliver outstanding teaching and learning.



Let's Learn

Simple, concise sentences are used to explain concepts in an inviting tone and ensure easy understanding of the content. Scientific keywords are presented in bold for emphasis and *support learners in* scientific literacy.

Vibrant and **Rich Visuals**

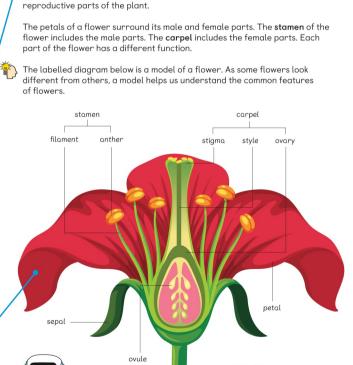
Vibrant and rich visual representations are used in explanations as they *simplify* complex concepts and help learners visualise them.

Chapter Opener

A simple and fun language-based writing exercise, such as writing words or a sentence, can be used to *capture interest* while introducing the chapter.

Flowers are the parts of a plant that help it reproduce. They are the

What Are the Parts of a Flower?



Word Boost

Word Boost surround

Non-scientific words are provided with definitions in the Teacher's Guide to support ESL learners in *expanding* their vocabulary and understanding the content.

Science Words •

anther

the male part of a flower that contains

carpel

fertilisation

the process in which the pollen and the egg join

flowering plants

flowers

parts of a flowering plant that help it reproduce

germination the development of a plant from a seed

life cycle the stages of growth and development in the life of a living thing

I Pour IOO ml of

2 Put IO g of sugar in

Using the teaspoon, stir 20 times.

3 Repeat steps I and 2, this time using cooking oil as the solvent.

Activity

Worksheet

ESL-friendly

worksheets include

auestions to help

learners *practise*

writing answers.

non-flowering plants

Activity 5© Changing Solvents

In Activity 5B, you found out that sugar can dissolve in water

Skill: Reach a scientific conclusion from my results

ovary

the female part of a flower that contains

petals

parts of a flower that usually have bright

the transfer of pollen from the anther of a flower to the stigma of the same or a different flower

seeds

small, hard parts of a plant from which new plants grow

seed dispersal the scattering of seeds away from the

parent plant

stamen

the part of a flower that contains the

the female part of a flower where pollen is

temperature

a measure of how hot or cold something is

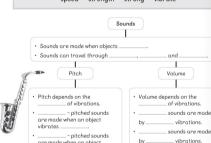
Science Words

The meanings of the scientific keywords are provided to build scientific literacy.



Let's Map It!

21



A layer of gas that surrounds the Earth The continuous movement of water from the Earth's surface to the sky and back to the Earth's surface (two words)

Word Whizz

Help Eddy solve the puzzle!

Water that falls from clouds onto the Earth, especially as rain or snow

A gas that is found in the largest amount in the atmosphere

It can be measured using

Let's Map It!

Concept maps with keywords for learners to fill in serve as a tool to *revise key concepts* and consolidate learning.

Word Whizz

Fun language-based *exercises*, such as crossword puzzles, help reinforce keywords and hone scientific literacy.

CHAPTER 2 THE DIGESTIVE SYSTEM

*Chapter Learning Objectives ╾

*Chapter Learning Objectives

*Sp.01 Know that animals, including humans, need an adequate, balanced diet in order to be healthy.

589.04 Describe the human digestive system, including the functions of the organs involved (limited to mouth, oesophagus, stomach, small intestine, large intestine and anus), and know that many vertebrates have a similar digestive system.

5TWSm.01 Know that a model presents an object, process or idea in a way that shows some of the important features.

5TWSm.02 Use models, including diagrams, to represent and describs oscientific phenomena and ideas.

5TWSc.01 Sort, group and classify objects, materials and living through testing, observation and using secondary information.

5TWSc.02 Use a range of secondary information sources to research and select relevant evidence to answer questions.

5TWSc.08 Collect and record observations and/or measurements in tables and diagrams appropriate to the type of scientific enquiry.

5TWSc.08 Experiment and interpret results using tables, but charts, obt plots and line graphs.

5SIG.03 Use science to support points when discussing issues, situations or actions.

Expected student prior knowledge -

Before starting this chapter, students are expected to:

know how to identify and describe the functions of some important organs in humans (stomach and intestine).

know how to describe food chains, that animals can eat plants and other animals.

Learning **Objectives**

Curriculum framework codes are indicated to let educators know which learning objectives from the Cambridge curriculum framework will be covered in the chapter.

Expected Student Prior Knowledge

A list of what learners should know to understand the chapter well.

Science Words to Highlight

Educators are encouraged to highlight the scientific words to learners as this *builds scientific* literacy.

Common **Misconceptions**

Promotes assessment for *learning* and serves as an easy reference for educators to highlight and correct commonly misunderstood concepts.

Lesson Plan

ESL and non-specialist educators can *easily understand the* content as the lesson plans are written using simple language. The step-by-step lesson plans allow educators to *deliver* engaging lessons effectively and conveniently. They provide guidance to conduct activities and contain suggested questions and answers to support lesson delivery.

Reproduction in Flowering

Number of Periods: 3

*Section Learning Objectives
5Bp.02 Know the stages in the life cycle of a flowering plant.
5Bp.03 Describe how flowering plants reproduce by pollination, fruit and seed production, and seed dispersal.
5TWSm.01 Know that a model presents an object, process or idea in a way that shows some of the important features.
5TWSm.02 Use models, including diagrams, to represent and describe scientific phenomena and ideas.
5TWSc.01 Sort, group and classify objects, materials and living things through testing, observation and using

secondary information.

Science Words to Highlight

• fertilisation, life cycle, pollination, seed dispersal

Common Misconceptions

onception 1: Plants produce seeds on their own (pollination or fertilisation is not needed).

Correct concept: Pollination and fertilisation need to take place before seed formation can happen. How to address: Ask: Have you heard of pollination and fertilisation? What is pollination and what is fertilisation?

Explain to students that pollination is the transfer of the pollen from the male part to the female part of a flower, while fertilisation happens when the pollen and egg join. Some students may think that pollination and fertilisation refer to the same process. Point out that these are different processes, and both are necessary before seeds are formed.

Misconception 2: All seeds from the same plant have the same size and shape

Correct concept: Seeds from the same plant may come in a variety of sizes and shapes How to address: Ask: Have you paid attention to the seeds from the apple that you eat? Do they all have the same size and

snaper Explain to students that many factors come into play during fertilisation, which can affect the size or even shape of every single seed produced. Point out that this is why we can sometimes notice that seeds may be of various sizes and shapes, even if the seeds come from the same fruit.

Lesson Plan

will be available online for teachers to edit and customise according to their requirements. Lesson 3 (80 min)

(10 min)

Refer to 'Thinking Cap' on page 8 of the Student's Book. Display pictures of a real tree and a real seed on the board. Get students to observe the pictures on the board. Ask students to discuss how a large tree could grow from a tiny seed. (Expected answer: Students may refer to one or more stages in the process of germination. For example, roots will help absorb water and nutrients to help the seed grow into a small

plant. Over time, the small plant grows into a tree as the stem of the plant grows and

thickens.)
Refer to 'Let's Explore!' on page 8 of the Student's Book.
Get students to use the stickers at the back of the Student's Book, to show how a plant grows. (Expected answer: Picture of a seed → picture of a seedling → picture of a young plant → picture of an adult plant)

young plant → picture of an adult plant)

Ask: How do you think plants change as they grow? (Expected answer: As the seed grows into a seedling, the roots and stem(s) also develop and grow. The plant produces leaves that make food for the plant. Over time, the plant grows into an adult plant. Some adult plants produce flowers that can help them reproduce.)

To support students in their sharing of ideas, you could write some of the science words you want them to use on the board, for example, 'seed', 'seedling', 'young plant' and 'tree'.

and 'tree'.
on is taken from the Cambridge Primary Science curriculum framework (0097) from 2020. You should

Alternative Lesson Ideas for Trigger, Activities for Main Lesson and Wrap-up

Additional lesson ideas serve as an easy and convenient reference to *support educators* in learners' engagement. Suggested lesson trigger ideas involve various teaching strategies such as visual stimulus, which can be used to further engage learners.

Working with Parents

Suggested home-based activities serve as reference for educators to involve parents in supporting learning *from home*. This promotes self-directed learning and a schoolhome partnership.

Differentiation

Activity ideas *provide* support and challenge *learners* during lessons, allowing educators to assess learners' understanding.

Alternative Lesson Trigger Ideas

Engage students by asking them to imagine they are an Inuit who has found a seed in the snow. Invite students to discuss if the seed will grow if it was planted in the snow. Then, ask students to imagine they are living in the hottest desert in the world. Ask: Will the seed grow in this desert?

living in the hottest desert in the world. Ask: Will the seed grow in this desert?

Alternative Activity Ideas for Main Lesson

Get students to observe two pictures. Picture A shows a pot with healthy leaves by a window sill on a sunny day. Picture B shows a pot with only soil and a seed placed in the refrigerator. Invite students to discuss their observations and explain why the seed in picture B did not germinate. Emphasise that a suitable temperature is required for plants to germinate. (Expected answer: The seed in picture B did not germinate because it is placed in a cold place. Seeds require warmth for germination.)

Alternative Lesson Wrap-up Ideas

List the stores inventor is required and the search is no incorrect order. Ack also the target process to be stored.

List the stages involved in germination on the board, in an incorrect order. Ask students to rearrange the stages of germination in the correct order.

Extended Learning Ideas

xtended Learning locas

Students can find out about other methods of growing plants, such as hydroponics and vertical crops.

Ask: How do these types of plants obtain suitable conditions they need to grow? Cat students to compare these methods to that of traditional farming and discuss how the methods differ. (Expected answer: Answers may vary. For example, soil is not used in hydroponics, yet the plants are being effectively grown in nts required for plant growth are found in the water solution used.)

Parents can work with their child to germinate a seed in their own home. Parents can guide their child to discuss what materials are needed and the conditions that are necessary for germination, which includes assessing the best location to place the seed preparation in their home.

Activities that provide challenge: Inform students that seeds have an outer coating. Ask students to think about what characteristics seed coatings should have to cope with different conditions. (Expected answer: Answers may vary. A seed needs a hard coating to protect the seed when it is being transported from location to location, such as by an animal. A seed needs to be thick or hard enough to prevent other organisms from entering.)

Activities that provide support: Provide a worksheet with sentences on the stages of germination in the correct Activities that provide support. Provide a worksheet with sentences in the stages or germination in the order. order. Leave blanks in place of key words. Show students a list of the key words arranged in no particular order. Encourage students to fill in the blanks with the correct key word. Alternatively, students can be asked to describe the stages in sentences rather than just filling in the key words.

Suggested **Answers**

Suggested answers for Student's Book and Activity Book *support* educators in assessment for learning.





Thinking Frames

These *promote thinking* and consolidate learning, and can be used as indicated in the lesson plans.

	Thinking Frame 2 – KWHL
Name:	
Date:	

10 11

Promotes Relatability through Real-life Contexts

This series presents opportunities to learn science in context so learners will be able to understand the relevance of science in their daily lives. The practical applications allow learners to transfer knowledge and skills to everyday scenarios, which can boost their understanding and make learning science meaningful.

As the series includes multicultural references and photographs, it caters to the international audience.

Real-life examples

Examples are drawn from real life through visuals that can *provide context* and promote relatability.

CHAPTER **The Digestive System** breakfasts from different parts of the world. Do any to you? Have you eaten any of them? nt to keep you healthy. Have you wondered what akfast in your body after you have eaten it? entence to describe your favourite breakfast.

Science at Work 🔑

Have you ever had dried fish such as ikan bilis?



Evaporation is commonly used in the food industry to reduce the water content in food and make it last longer. Many people also love the flavour of the dried food

Visit your local grocer or supermarket and identify some dried food items. Carry out research to find out how they are dried.

What Happens During Condensation?

Look back at the picture on page 55. What causes the mirror in the bathroom to become foggy after you take a hot shower?

The hotter water vapour in the bathroom comes in contact with the cooler surface of the mirror. When that happens, the water vapour loses heat and changes into water droplets. This process of a gas changing into a liquid is called condensation



Can Magnetic Force Act Over a Distance?

You discovered in the 'Let's Explore!' activity on page I23 that a magnet can attract an iron nail without touching it. Magnetic force can act over a distance between magnets, and between magnets and magnetic



Magnetic force can act over a distance to attract the iron nails.

Tech Talk!

Showcases real-life *applications* by featuring modern technology, which learners may have encountered before, to demonstrate the relevance of science in daily life.





Maglev (magnetic levitation) trains can travel more than 400 kilometres per hour. The strong magnets between the train and the tracks repel each other, causing the train to 'float' above the tracks. Other magnets allow the trains to move at great speeds. Why is the distance between the 'floating' train and the tracks important? What could happen if it is



Evaporation and Condens

In this section, I will

B

- describe the processes of evaporation and condensation
- use a model to explain a process
- plan a fair test and identify the three types of variables
- choose equipment and use it properly during an investigation describe risks in practical work and ways to minimise them
- use knowledge and understanding to make predictions
- decide when to repeat observations to get reliable results do practical work safely
- take measurements accurately
- create tables and diagrams to present the results of my observations when
- recognise the features of different scientific enquiries
- describe the use of science locally

Thinking cap

I wonder why my glasses become

Let's Explore!

In-class activities are based on real-life contexts so learners can *discover the* relatability of the scenarios. which will *enhance their* understanding as they learn facts.

Let's Explore!

foggy sometimes.

Where did the water droplets come from?

You will need:

- Small mirror
- I. Hold the mirror in front of your mouth.
- 2. Open your mouth and breathe out in front of the mirror.
- 3. What do you observe? Give a possible reason for your observation.
- 4. Leave the mirror aside for a few minutes.
- 5. What do you observe now? Why?



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Problem-based Learning •

How can we prevent wastage of water? Farmers need water to grow their plants. Many farmers depend on rainfall to water their fields. When there is not enough rainfall, many farms use artificial watering of fields. This is known as

> Many fields use an irrigation system as shown in this picture. However, some irrigation systems can lead to wastage of water as the plants may not need so much water. You have been tasked to find ways to solve this problem

- I. Work in groups. Start with asking a scientific question about irrigation that can be investigated. Select an appropriate scientific enquiry that you can use to find the answer to
- 2. Design a method to irrigate fields without
- 3. Design a poster to present your ideas. Keep these questions in mind when designing the
 - (a) How will this system work?
- 4. Share your poster with the class.

Social and **Emotional Learning**

With an emphasis on the learners' Social and Emotional Learning, mascots will appear to encourage learners to *practise social and* emotional etiquette as they learn how to work with others and manage their emotions.

Problem-based Learning

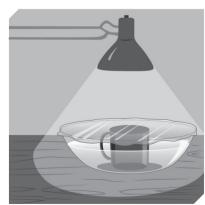
Activities involving real-life problems which require learners to *apply their* knowledge and skills to propose possible solutions.

Look for some food items in your refrigerator. Using the food packaging as a source of information, find out which food group each of the food items belongs to. Sort the food items into the various food groups on a separate The plate below shows how you can have a balanced diet.



Activity 9B Make a Water Cycle

Learn that a model shows the important features of a process and a idea, use a model and a diagram to illustrate and explain a scientific event and idea, use science to support my points of view in discussions



Large plastic bow Marker

Cling wrap String

- I Place the empty mug in the middle of the large plastic bowl.
- 2 Fill the bowl with water to the half-way mark. Use a marker to mark the

Activity Worksheet

Engaging hands-on activities provide opportunities to *demonstrate* concepts pertaining to the topic and allow learners to transfer their knowledge to reallife contexts.



Delivers a Fun and Engaging Hybrid Learning Experience

This series offers an exciting and engaging hybrid learning experience with its convenient and easy-to-use bank of digital resources. The eBooks allow annotations to be saved to capture submitted answers, in addition to the Student's Book that is tagged with interactive digital resources to enhance learning.

Spark excitement and fun learning in science lessons by engaging learners with vibrant visuals, videos, guizzes, and sticker activities. With both print and digital learning resources available to support online and face-to-face learning, this series delivers outstanding learning experiences.

observe and study Earth and space and send information to scientists on

While the Moon is a natural satellite of Earth, there are thousands of

The Hubble Space Telescope is a large telescope orbiting Earth since 1990. It has taken more than a million pictures of objects in space for scientists to study the universe



Scan this page video about the Hubble Space

Word Boost The Hubble Space Telescope is a human-made

Stickers

How Can the Particle Model Be Used to Describe Solutions?

We can use the particle model to describe solutions. When a solute is dissolved in a solvent, the solute breaks apart and mixes evenly with the solvent.



The solute particles are broken apart and mixed evenly with the solven particles to form a solution.

How Can the Solvent and Solute Be Separated From a Solution?

In Stage 3, we have learnt how a mixture of solids or a mixture of a solid and a liquid can be physically separated by sieving and filtratio

Dissolving is a reversible process. This means that a solute can also be separated from a solvent. However, this cannot be done by sieving or filtration. This is because the solute particles will be able to pass through the filter paper since they are so small

Watch!

Learning comes alive with the relevant *videos* and* quizzes*, which excite and engage learners. These can be projected in class by educators or launched using smart devices by scanning the page using the MCE Cambridge app.

*These digital resources will not go through the Cambridge International endorsement process.

Sticker Activities

Sticker activities *elevate* the learning experience through *interesting* hands-on engagement and promote assessment for learning.





Vibrant Visuals

Vibrant and rich colours are used throughout the Student's Book to deliver a *joyful look and* feel.

Dynamic and Engaging **Mascots**

The mascots will appear frequently to interact with the learners and present concepts in an engaging manner.



Annotatable eBooks*

Answers annotated in the eBooks can be saved and accessed by educators. The Student's eBooks contain *digital* **resources** tagged to the Watch feature which learners can access in their own time or through in-class activities. The flexibility in usage of digital resources enables hybrid teaching and learning.



Additional Digital Resources*

Digital teacher's resources, such as lesson PowerPoint slides and homework worksheets, will help educators *save* time on lesson planning and effectively deliver exciting and fun science lessons. They are editable, allowing educators to customise and plan their lessons for the various learning needs.

What Adaptations Do Flowering Plants Have for Pollination?

In Chapter I, you have learnt that insects and birds play an important role in pollinating flowers. Flowering plants have adaptations for attracting pollinators. Pollinators are animals that help transfer pollen from the anther of a flower to the stigma of the same

attracted to the scent or nectar in the flowers Some flowers may give off a bad smell to attra

As the pollinators travel from one flower to another, the pollen grains stick onto their bodies. The pollen grains may

	STAGE 1	
CHAPTER I	Our Body	
CHAPTER 2	Alive and Never Been Alive	
CHAPTER 3	Plants	
CHAPTER 4	Materials	
CHAPTER 5	Movement of Objects	
CHAPTER 6	Sounds	
CHAPTER 7	Electricity	
CHAPTER 8	Magnets	
CHAPTER 9	Earth and the Sun	
	STAGE 2	
CHAPTER I	Animals	
CHAPTER 2	Being Healthy	
CHAPTER 3	Habitats	
CHAPTER 4	Materials	
CHAPTER 5	Forces	
CHAPTER 6	Light and Darkness	
CHAPTER 7	More about Electricity	
CHAPTER 8	Rocks	
CHAPTER 9	Changes to Our Environment	
CHAPTER IO	The Sun	
	STAGE 3	
CHAPTER I	Things Around Us	
CHAPTER 2	Animals	100
CHAPTER 3	Food Chains	
CHAPTER 4	Parts of Plants and Humans	
CHAPTER 5	Matter and Mixtures	
CHAPTER 6	Friction and Gravity	
CHAPTER 7	Light and Shadows	
CHAPTER 8	Properties of Magnets	
CHAPTER 9	Rocks and Fossils	
CHAPTER IO	Earth, the Sun and the Moon	

^{*}These digital resources will not go through the Cambridge International endorsement process.

STAGE 4						
CHAPTER I	Bones and Muscles					
CHAPTER 2	Diseases					
CHAPTER 3	Energy from Food					
CHAPTER 4	Different Habitats					
CHAPTER 5	Materials, Substances and Particles					
CHAPTER 6	Energy					
CHAPTER 7	Properties of Light					
CHAPTER 8	Electric Circuits					
CHAPTER 9	The Solar System					
CHAPTER IO	Structure of the Earth					
	STAGE 5					
CHAPTER I	Flowering Plants					
CHAPTER 2	The Digestive System					
CHAPTER 3	Adaptations					
CHAPTER 4	States of Matter					
CHAPTER 5	Interactions of Matter					
CHAPTER 6	More about Forces					
CHAPTER 7	Sounds					
CHAPTER 8	Magnets and Forces					
CHAPTER 9	The Atmosphere and the Water Cycle					
CHAPTER IO	Pollution					
CHAPTER II	Movement of Earth					
	STAGE 6					
CHAPTERI	The Respiratory and Circulatory Systems					
CHAPTER 2	The Human Reproductive System					
CHAPTER 3	Human Diseases					
CHAPTER 4	Food Chains and Food Webs					
CHAPTER 5	Properties of Matter					
CHAPTER 6	Physical and Chemical Changes					
CHAPTER 7	Effects of Forces					
CHAPTER 8	Movement of Light					
CHAPTER 9	More About Electrical Circuits					
CHAPTER IO	More About Rocks					
CHAPTER II	Soil					
CHAPTER I2	More About the Solar System					