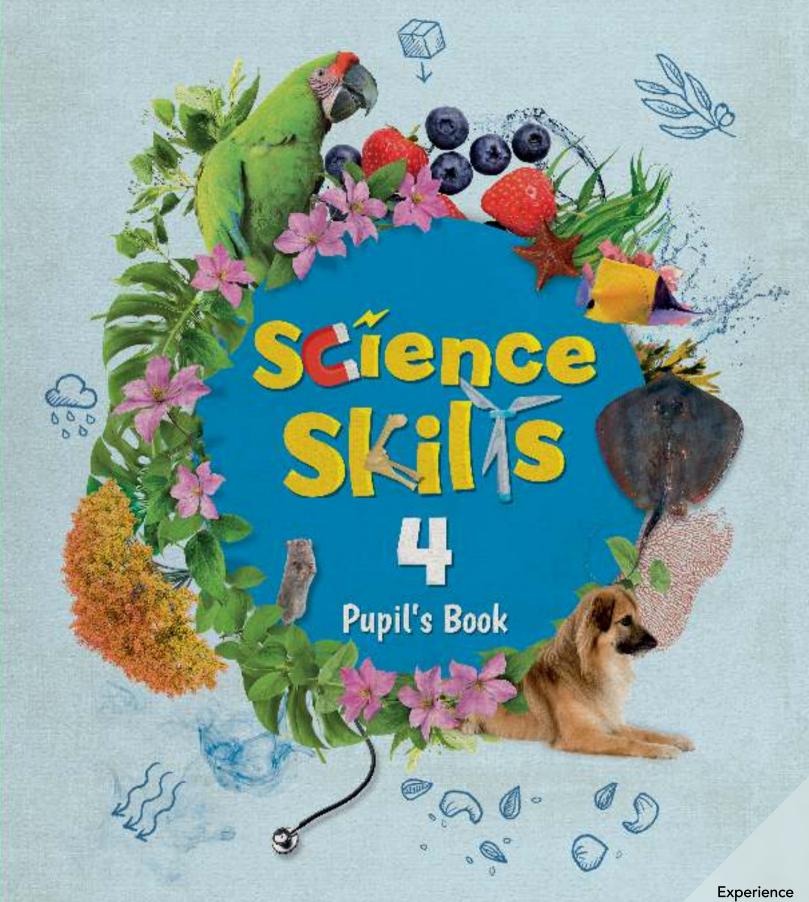
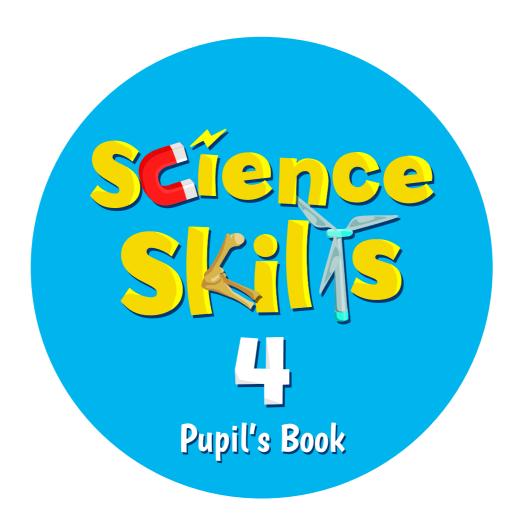
**C**AMBRIDGE



Experience
Better
Learning





by Kevin Walker



## SCIENCE SKILLS 4



	Contents		
Welcome Page 4			
How do our body systems work? Page 6	<ul><li>Vital body systems</li><li>Respiratory system</li><li>Oxygen in, carbon dioxide out</li></ul>	<ul><li>The heart</li><li>Veins, arteries and capillaries</li></ul>	
How gre you feeling? Page 16	<ul><li>Common illnesses</li><li>Medicine</li><li>First aid</li></ul>	<ul><li>Healthy habits</li><li>Unhealthy habits</li></ul>	
3 Is a sponge an animal? Page 30	<ul><li>Vertebrate nutrition</li><li>Vertebrate respiration</li></ul>	<ul><li>Vertebrate reproduction</li><li>Classification of invertebrates</li></ul>	
Why are plants so important? Page 44	<ul><li>Review of the parts of a flower</li><li>Plant reproduction</li></ul>	<ul><li>Plant nutrition</li><li>Photosynthesis</li></ul>	
5 Which forces are invisible? Page 54	<ul><li>Mass and volume</li><li>Properties of materials</li></ul>	<ul><li>Contact and non-contact forces</li><li>Density and buoyancy</li></ul>	
6 How have machines changed the world? Page 68	<ul><li>Inclined plane</li><li>Pulley</li><li>Levers</li></ul>	<ul><li>Archimedes</li><li>Isaac Newton</li><li>Inventions</li></ul>	

Questions and Study aids



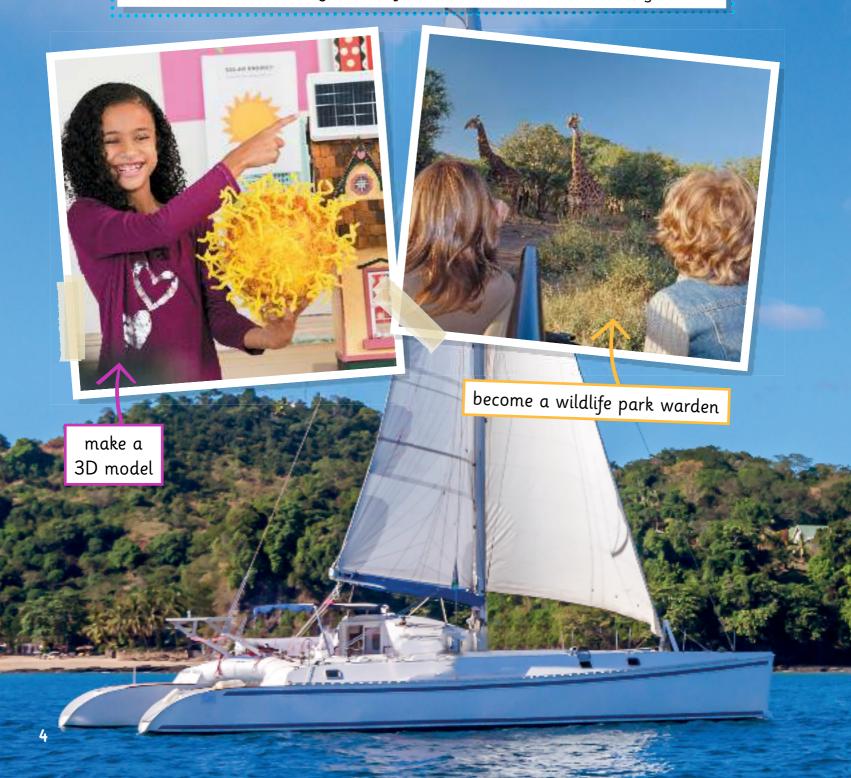
#### **Documentaries**

<ul> <li>Create a 3D body systems mural</li> <li>Check vital signs</li> </ul>	<ul> <li>Respiration and circulation</li> </ul>
<ul> <li>Create a healthy habits awareness campaign</li> <li>Learn about the negative effects of not getting enough rest</li> </ul>	· Healthy and unhealthy habits
<ul> <li>Make wildlife park signs about vertebrates and invertebrates</li> <li>Observe the effect of carbon dioxide on litmus paper</li> </ul>	• Marine invertebrates
<ul> <li>Create a quiz about plant reproduction and nutrition</li> <li>Observe plant respiration</li> </ul>	• Plant reproduction
<ul> <li>Make a materials classroom display</li> <li>Predict if objects will sink or float</li> </ul>	• Forces
<ul> <li>Create a slide presentation on simple and complex machines</li> <li>Make a lever</li> </ul>	<ul> <li>Inventions that changed the world</li> </ul>



# WELCOME TO CAMBRIDGE SCIENCE SKILLS

Welcome to the amazing world of natural science. In this book, you will:



### learn about recyclable materials





create a health awareness campaign

organise a table quiz

find machines in your neighbourhood



#### You will also find out:

- what your respiratory rate is
- how to detect oxygen
- how to see the oxygen plants release
- whether certain objects sink or float
- how levers work.



# HOW DO OUR BODY SYSTEMS WORK?



What do we get from the air that helps us live?

How do you feel after running around for a long time?







What body systems are the people in these photos using?



**Song**Pumping and breathing

What is happening in each photo? Why?



**DOGUMENTARY** 

Respiration and circulation

### nvestigate

In this unit, you will create a 3D body systems mural. To do this, you will:

- work in groups to create a mural.
- learn more about the respiratory system, including how we get oxygen from the air.
- learn more about the circulatory system, including how the heart pumps blood.
- present each part of the mural to the class as a group.