

Natural Sciences
Lisa Davies

Class Book Pack with Digital Class Book Active Learning Kit

All the written activities in this book should be completed in your own notebook, and not in this book.

Todas las actividades de carácter escrito propuestas en este libro se deben realizar en un cuaderno aparte, nunca en el propio libro.



Contents

O. You're a scientist Page 8	What has science achieved?What are some important inventions in science?					
1. Ecosystems Page 10 Watch.	How do we classify living things?	What's an ecosystem?	STEAM Challenge Make an insect hotel			
2. Rocks and relief Page 26 Watch.	What different landforms are there?	Can you understand a relief map? Watch.	STEAM Challenge Make a contour map of an island			
Page 40 Project. Learning situation 1 Protect national parks						
3. Heat and temperature Page 42 Watch.	What are sources of heat?	How can we measure temperature?	STEAM Challenge Make a thermometer Culture Daniel Fahrenheit			
4. Forces Page 58 Watch.	What's a force? • Watch.	What are contact and non-contact forces? • Watch.	What's gravity? Culture Isaac Newton			
Page 72 Project. Learning situation 2 Friction						
5. Machines Page 74 • Watch.	What's a machine? • watch. Culture Archimedes	STEAM Challenge Make a catapult	How did machines change the world? • Watch.			
6. Digital devices Page 90 Watch.	How has technology changed our world? watch. Culture Steve Jobs	How can we use technology to communicate?	How can we use digital devices safely?			
Page 106 Project. Learning situation 3 Machines and technology in the future						
Page 108	Language activities					



How do living things interact in an ecosystem? • Watch.	How can we protect ecosystems? • Watch. Culture Rachel Carson	Why are ecosystems important?	Which location has the most air pollution? Watch.	Review & Reflect What have you learned about ecosystems?
How do we classify rocks? Watch.	Science lab Which rocks are sedimentary? Watch.	What's a mineral? Culture Ermeloite		Review & Reflect What have you learned about rocks and relief?
How can heat change states of matter? • Watch.	What are conductors and insulators?	How can we use heat as an energy source? • Watch.	Which spoon is the best thermal conductor? Watch.	Review & Reflect What have you learned about heat and temperature?
How do magnets work?	Are big magnets always stronger than smaller ones? Watch.	STEAM Challenge Design a forces game		Review & Reflect What have you learned about forces?
What are simple machines?	What are complex machines?	Does the surface of an inclined plane affect how fast a marble rolls? • Watch.	What is the difference between simple and complex machines?	Review & Reflect What have you learned about machines?
Can you program? • Watch.	STEAM Challenge Design a website	Can you design a? • Watch.	How can you design an object to help someone?	Review & Reflect What have you learned about digital devices?

[•] Language learning lab in every unit

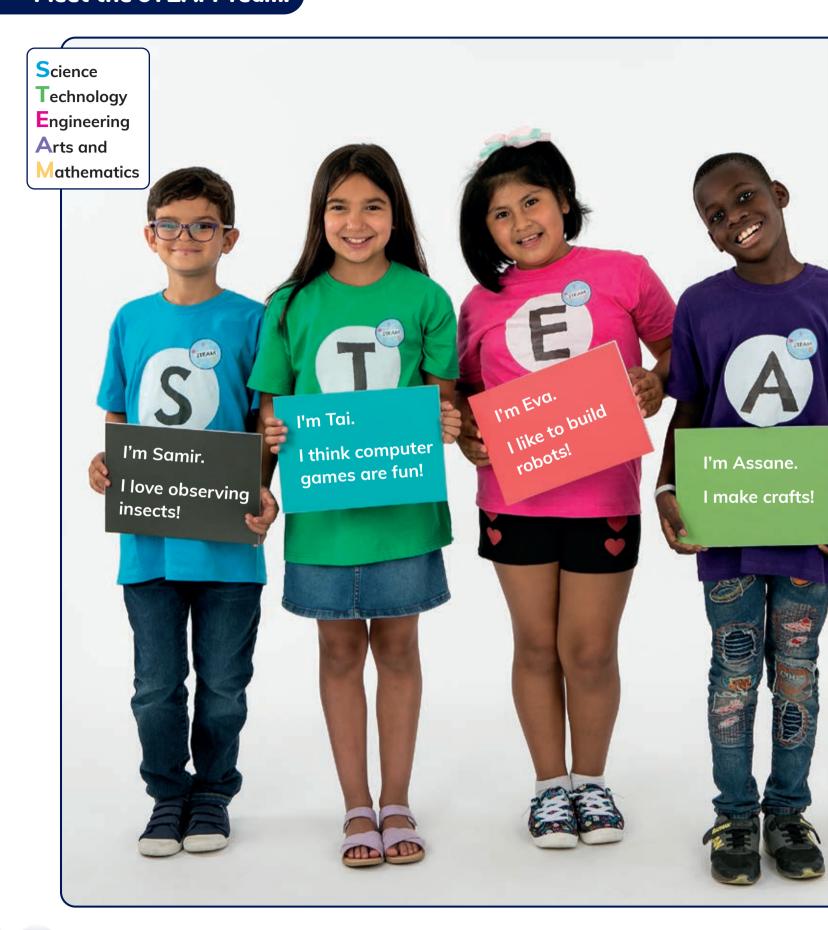
watch. unit videos, content videos and experiment videos

Key competences

Personal, social and learning to learn Ω Entrepreneurship Citizenship Cultural awareness and expression

[•] WebQuest in every unit

Meet the STEAM Team!







Do STEAM challenges.



Ask important questions.

