



# Contents








<b>0.</b> <b>You're a scientist!</b> Page 6		• How can we discover new information? • How can STEAM subjects change the world?			
<b>1.</b> <b>The Universe and the Earth</b> Page 10  Watch.	What are the lights we see in the night sky?	How do rotation and revolution affect us?  Watch.	What astronomical objects are there in the Solar System?	What causes the weather?	
<b>2.</b> <b>The geology of planet Earth</b> Page 28  Watch.	What are the Earth's spheres and layers?  Watch.		How are mountains formed?  Watch.	What are minerals?	
<b>3.</b> <b>Spain and Europe</b> Page 46  Watch.	What is a relief map?  Watch.	Can you name the main rivers in Spain? 	What do you know about Spain's natural heritage?	What countries are there in Europe?	
Page 64 <b>Project. Learning situation 1</b>					
<b>4.</b> <b>Design and technology</b> Page 66  Watch.	How are digital devices made?  Watch.		How can you learn computational thinking skills?  Watch.		
<b>5.</b> <b>Matter and density</b> Page 84  Watch.	What are the properties of matter?		What is mass?	What is volume?	
<b>6.</b> <b>Forces and movement</b> Page 102  Watch.	What forces affect how things move on land?		How do boats and submarines work?  Watch.	How can we fly? 	
Page 116 <b>Project. Learning situation 2</b>					
<b>7.</b> <b>19<sup>th</sup>-century Spain</b> Page 118  Watch.	What happened at the start of the Modern Age?  Watch.	What happened in late 19 <sup>th</sup> -century Spain?	What was the Industrial Revolution?  Watch.	How did society change?	
<b>8.</b> <b>20<sup>th</sup>-century Spain</b> Page 134  Watch.	Why did the Spanish Civil War happen? 	What was the Franco dictatorship?  Watch.	How did Spain become a democracy?  Watch.	What rights did people gain in the 20 <sup>th</sup> century? 	
<b>9.</b> <b>The green economy</b> Page 154  Watch.	What are the Sustainable Development Goals?		How can we use resources responsibly?  Watch.	What is poverty?  Watch. 	
Page 170 <b>Project. Learning situation 3</b>					
Page 172		<b>Language activities</b>			

- Language learning lab in every unit
- WebQuest in every unit

 unit videos, content videos and experiment videos  interactive map

What are the world's main climate zones? 	What's an ecosystem? 	<b>Social lab</b> Can you calculate the time in different parts of the world?	<b>CULTURE</b> Pablo Álvarez Fernández and Sara García Alonso	<b>STEAM Challenge</b> Can you make a virtual poster about an ecosystem?	<b>Review &amp; Reflect</b> What have you learned about the Universe and the Earth?
What are rocks?	How do we classify minerals and rocks?	<b>Science lab</b> How important is movement in erosion? 	<b>CULTURE</b> Inge Lehmann	<b>STEAM Challenge</b> Can you make an artificial stalactite?	<b>Review &amp; Reflect</b> What have you learned about the geology of planet Earth?
What information can you find on a world map?		<b>Social lab</b> Interpret a relief map of Spain	<b>CULTURE</b> Josefina Gómez Mendoza	<b>STEAM Challenge</b> Can you make a multiple-choice quiz about Europe?	<b>Review &amp; Reflect</b> What have you learned about Spain and Europe?
How can I learn to program?		<b>Design lab</b> How can I write a simple program?	<b>CULTURE</b> Alan Turing	<b>STEAM Challenge</b> Can you create a digital presentation explaining how to program?	<b>Review &amp; Reflect</b> What have you learned about the Universe?
What is density?		<b>Science lab</b> How does density affect a body's ability to float? 	<b>CULTURE</b> Marta Sales-Pardo	<b>STEAM Challenge</b> Can you make a density column?	<b>Review &amp; Reflect</b> What have you learned about matter and density?
How does transport affect the environment?		<b>Science lab</b> How does friction affect movement? 	<b>CULTURE</b> Amelia Earhart	<b>STEAM Challenge</b> Can you make a marble motion painting?	<b>Review &amp; Reflect</b> What have you learned about forces and movement?
What was art and culture like in the 19 <sup>th</sup> century?		<b>Social lab</b> Make a timeline mural	<b>CULTURE</b> Emilia Pardo Bazán	<b>STEAM Challenge</b> Can you create an Impressionist painting?	<b>Review &amp; Reflect</b> What have you learned about 19 <sup>th</sup> -century Spain?
What was art and culture like in the 20 <sup>th</sup> century?		<b>Social lab</b> Have a debate about 20 <sup>th</sup> -century Spain	<b>CULTURE</b> Clara Campoamor	<b>STEAM Challenge</b> Can you design a documentary about 20 <sup>th</sup> -century Spain?	<b>Review &amp; Reflect</b> What have you learned about 20 <sup>th</sup> -century Spain?
Why do we pay taxes and what rights do workers have?	What rights do workers have?	<b>Social lab</b> Make a sustainability action plan	<b>CULTURE</b> Greta Thunberg	<b>STEAM Challenge</b> Can you calculate your carbon footprint?	<b>Review &amp; Reflect</b> What have you learned about the green economy?

### Key competences

-  Linguistic communication
-  Science, Technology, Engineering and Mathematical (STEM)
-  Digital
-  Personal, social and learning to learn
-  Entrepreneurship
-  Citizenship
-  Cultural awareness and expression