## Contents

What is STEAM? Page 6	• STEAM in ac	ction • \	Vome	n in STEAM • The	e road to learning o	and sc	ientific su	ccess
1. Human nutrition Page 10 • Watch.	How do humans get nutrients and eliminate waste?  • Watch.		How does the circulatory system transport nutrients and oxygen to the cells in your body?		What's the main function of the respiratory system?		What should we do to have a balanced diet?  • Watch.	
2. Human interaction and reproduction Page 28 watch.	How do you interact with the world around you?  • Watch.		Which systems make up the locomotor system?  • Watch.		What are the stages in human reproduction?		What changes happen during puberty and adolescence?	
3. Energy Page 46  watch.	What's energy?	How do was differ forms of energy?		Where do non-renewable resources come from?	What are the negative effects of fossil fuels?	advar	-	What's electrical energy?
Page 70 <b>Project. Learning</b>	situation 1 Eco	o-friendly	y home	es				
4. Spain in the Middle Ages Page 72 watch.	Who were the Visigoths?  • Watch.		How was al-Andalus formed?  • Watch.		What was life like in al-Andalus?		How were the Christian kingdoms formed?	
5. Early Modern Spain Page 90 • Watch.	Who were the Catholic Monarchs?		What happened during the Age of Discovery?		Who were the Hapsburgs?		Who were the Bourbons?  • Watch.	
6. Design and technology Page 108  watch.	What are digital devices?  Watch.		How can we search for and analyse information on the Internet?  • Watch.		How can we use the Internet safely and follow digital etiquette?			
Page 124 <b>Project. Learnin</b>	g situation 2 D	igital pre	senta	tions				
7. Population Page 126  watch.	What indicators give us data on population change?		What types of graphs can we use to represent population groups?  • Watch.		What's the population density of Spain and Europe?  • Watch.		What are the factors that influence the migration of people?	
8. Spain and Europe Page 144 Watch.	What are the main features of the Spanish Constitution?		What's the separation of powers?  • Watch.		Where are each of Spain's autonomous communities?		How are the autonomous communities of Spain organised?  • Watch.	
9. The economy Page 162  • Watch.	How do we obtain raw materials?		What type of products does the secondary sector provide?		What types of services does the tertiary sector provide?  • Watch.		Why do companies advertise?  • Watch.	
Page 180 <b>Project. Learnin</b>	g situation 3 T	he circul	ar eco	onomy				
Page 182	Language activi	ties						

<sup>•</sup> Language learning lab in every unit • WebQuest in every unit

watch. unit videos, content videos and experiment videos

<sup>6</sup> interactive map

What should you do if someone has an accident?		Why has the stomach got gastric juices?  watch.		CULTURE Christiaan Barnard	STEAM Challenge My model lung	Review & Reflect What have you learned about human nutrition?	
What are healthy habits?		Science lab How fast can you react?  Watch.		CULTURE Santiago Ramón y Cajal	STEAM Challenge My cardboard robotic hand	Review & Reflect What have you learned about human interaction and reproduction?	
Vhat do we eed to make n electric ircuit?  Watch.	What are robots?		Science lab  How does acid rain affect plants?	<b>CULTURE</b> Kimberly Bryant	STEAM Challenge My machine	Review & Reflect What have you learned about energy?	
What caused the Reconquista?		Social lab  Can you make a timeline?		CULTURE St Isidoro of Sevilla	STEAM Challenge My Roman calculator model	Review & Reflect What have you learned about Spain in the Middl Ages?	
What artistic styles appeared in the Early Modern Age?  • Watch.		Social lab  Can you put events in chronological order?		CULTURE Inés de Suárez	STEAM Challenge My compass	Review & Reflect What have you learned about Early Modern Spain?	
How can you show what you have learned about the Internet?		How can you design and test a parachute?		CULTURE Dorothy Vaughan	STEAM Challenge My storyboard comic	Review & Reflect What have you learned about design and technology?	
How can we make our society more inclusive and diverse?		Social lab  Can you make a pie chart?		<b>CULTURE</b> Sadako Ogata	STEAM Challenge My drum	Review & Reflect What have you learned about population?	
What are the main institutions of the European Union and what are their objectives?		Social lab Can you make a map?		CULTURE Clara Campoamor	STEAM Challenge My flagpole	Review & Reflect What have you learned about Spain and Europe	
equality mean?		Social lo Can yo survey	ou do a class	<b>CULTURE</b> Amartya Sen	STEAM Challenge My advertisment	Review & Reflect What have you learned about the economy?	

## Key competences