

	Video	Reading	Vocabulary	
<p>1 Design</p> <p>PAGE 8</p> <p>Industry</p> <ul style="list-style-type: none"> ▪ Article: Beautifully broken <p>Biology</p> <ul style="list-style-type: none"> ▪ Article: Biomimicry and biometric design 	Heritage crafts	Read to recognize internal paraphrasing Read and recognize examples	Practice and use adjectives for describing products	
<p>SCIENTIFIC AMERICAN What birds really listen for in birdsong (it's not what you think) PAGES 26–27</p>				
<p>2 Thought</p> <p>PAGE 28</p> <p>Technology</p> <ul style="list-style-type: none"> ▪ Article: Can machines think? <p>Agriculture</p> <ul style="list-style-type: none"> ▪ Article: Emotional thinking 	Virtual reality treatment	Read and understand how to use ellipsis Read and understand the function of questions in texts	Practice and use language for comparing and contrasting	
<p>3 Fire</p> <p>PAGE 46</p> <p>Environment</p> <ul style="list-style-type: none"> ▪ Article: The top five causes of wildfires <p>Environment</p> <ul style="list-style-type: none"> ▪ Article: Is the climate changing our view of fire? 	Everything is gone	Read and use word parts to understand meaning Read and identify point of view	Practice and use collocations with <i>problem</i>	
<p>SCIENTIFIC AMERICAN Here's how to use dreams for creative inspiration PAGES 64–65</p>				
<p>4 Movement</p> <p>PAGE 66</p> <p>Environment</p> <ul style="list-style-type: none"> ▪ Article: The Panama canal: A brief history <p>Logistics and development</p> <ul style="list-style-type: none"> ▪ Article: A port in a storm 	Nomads and desertification	Read and annotate a text Read and recognize text structure	Practice and use verbs for talking about change	

Grammar	Writing	Academic skill	Unit outcomes
Use <i>can</i> for universal truths	Practice organizing ideas Write an essay discussing the advantages of handmade products over machine-made products	Identifying the audience	Recognize and understand the technique of internal paraphrasing in texts Understand exemplification to support an argument Compose and edit an essay using reasons and examples to support your argument
Use adverbs to hedge the strength of statements	Practice organizing a compare-and-contrast essay Write an essay comparing and contrasting the importance of emotional and intellectual intelligence	Using analogies	Recognize and understand how ellipsis is used to eliminate unnecessary words and refer backwards Understand the function of questions in texts Organize and compose a compare-and-contrast essay
Use gerunds and reduced clauses	Practice developing your arguments with supporting information Write a problem / solution essay on wildfires	Active reading with SQ3R	Recognize and use word parts to understand meaning Recognize sentence modifiers to identify point of view Brainstorm and compose a problem / solution essay
Use the future passive	Practice describing plans and predictions in the future Write a comparison essay of two maps	Using objective language	Practice using annotations to understand a text Recognize and understand text structure Brainstorm and compose a comparison of two maps

	Video	Reading	Vocabulary	
<p>5 Disease</p> <p>PAGE 84</p> <p>Biology</p> <ul style="list-style-type: none"> ▪ Article: Fighting cholera <p>Medicine</p> <ul style="list-style-type: none"> ▪ Article: Health comes at a price 	Mosquito illnesses	<p>Read and recognize text organization</p> <p>Read and identify sentence functions</p>	Practice and use cause and effect language	
<p>SCIENTIFIC AMERICAN The solar system’s mysterious magnetic fields PAGES 102–103</p>				
<p>6 Survival</p> <p>PAGE 104</p> <p>Health and technology</p> <ul style="list-style-type: none"> ▪ Article: Food of the future <p>Architecture</p> <ul style="list-style-type: none"> ▪ Article: More than just survival 	Water pollution	<p>Read and find support for opinions</p> <p>Read and use research questions to understand texts</p>	Practice and use vocabulary for describing graphs	
<p>SCIENTIFIC AMERICAN Vapor storms are threatening people and property PAGES 122–123</p>				
<p>7 Law</p> <p>PAGE 124</p> <p>Society</p> <ul style="list-style-type: none"> ▪ Article: Paying your fair share <p>Work</p> <ul style="list-style-type: none"> ▪ Article: Right or wrong at work 	The rightful owners	<p>Read and activate prior knowledge</p> <p>Read and summarize sections of a text</p>	Practice and use legal terms	
<p>8 Tomorrow</p> <p>PAGE 142</p> <p>Technology</p> <ul style="list-style-type: none"> ▪ Article: Products of the future <p>Society</p> <ul style="list-style-type: none"> ▪ Article: An aging planet 	Li-Fi	<p>Read and understand conclusions</p> <p>Read and identify text predictions</p>	Practice and use science nouns	
<p>SCIENTIFIC AMERICAN Echolocation drains bats traveling through noise PAGES 160–161</p>				

Grammar	Writing	Academic skill	Unit outcomes
Use conditionals with <i>provided</i> and <i>unless</i>	Practice writing definitions for essays Write a cause-and-effect essay on research into disease	Organizing a cause-and-effect essay	Recognize and understand paragraph structure Practice identifying sentence functions Compose and edit a cause-and-effect essay
Use the present perfect progressive	Practice inferring reasons for change Write a description summarizing and comparing trends in animal populations shown on a graph and infer reasons for the changes	Organizing a descriptive essay	Practice identifying support for opinions Recognize and use research questions Brainstorm and compose a descriptive summary of a graph
Use unreal conditionals in the past	Practice writing and supporting an essay thesis with opposing views Write a for-and-against essay on speaking out about unethical colleagues	Hedging expressions	Practice activating prior knowledge Practice summarizing sections of a text Compose and edit a for-and-against essay
Use future perfect simple	Practice identifying and writing a stance for an opinion essay Write a persuasive argument regarding the risks and challenges to new technology	Connecting new knowledge to previous knowledge	Identify and understand conclusions Recognize and understand text predictions Compose and edit an opinion essay