

Educational Standards

Standards Alignment Chart	FAMILY LIFE CYCLE STORY STONES Grades 2-3 • p. 10	PENGUIN PAPER MOSAIC Grades 2-3 • p. 12	FAMILY LIFE CYCLE STORY CUPS Grades 4-6 • p. 13	PENGUIN PEBBLE MOSAIC Grades 4-6 • p. 15	FIND YOUR FAMILY THE ADÉLIE PENGUIN WAY Grades 4-6 • p. 16	NESTS TAKE SHAPE: PLATONIC SOLIDS Grades 4-6 • p. 17
SCIENCE	From Molecules to Organisms: Structure and Process	3-LS1; LS1.B	4-LS1-1; LS1.A		4-LS1-1; LS1.A; 4-LS1-2; LS1.D; MS-LS1-8	
	Ecosystems: Interactions, Energy and Dynamics	3-LS2-1; LS2.D				
	Engineering Design		K-2-ETS1-2; ETS1.B		3-5-ETS1-2; ETS1.B; 3-5-ETS1-3; ETS1.C; MS-ETS1-2; MS-ETS1-4	
	Biological Evolution: Unity and Diversity	3-LS4-3; LS4.D				
ENGLISH LANGUAGE ARTS	ELA - SL Comprehension and Collaboration	2-SL2; 2-SL3; 3-SL1.a.b	4-SL1.a.b.c.d; 5-SL1.a.b.c.d; 6-SL1.a.b.c.d			
	ELA - SL Presentation of Knowledge and Ideas	2-SL4; 2-SL5; 2-SL6; 3-SL4; 3-SL5; 3-SL6	4-SL4; 4-SL5; 4-SL6; 5-SL4; 5-SL5; 5-SL6; 6-SL4; 6-SL5; 6-SL6			
	ELA - W Text Types and Purposes	2-W2				
MATH	Math - Measurement and Data					4.MD1.3; 5.MD3
	Math - Geometry					5.G1; 3; 6.G1; 4
ART	Arts - Visual Arts Creating: Anchor Standard 1	2-CR1.2.2a; 3-CR1.2.3a	2-CR1.2.2a; 3-CR1.2.3a			
	Arts - Visual Arts Creating: Anchor Standard 2	2-CR2.3.2a; 3-CR2.3.3a	2-CR2.3.2a; 3-CR2.3.3a	4-CR2.1.4a; 5-CR2.1.5a; 6-CR2.1.6a	4-CR2.1.4a; 5-CR2.1.5a; 6-CR2.1.6a	
	Arts - Visual Arts Creating: Anchor Standard 9	2-RE9.1.2a	2-RE9.1.2a			

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Standards Alignment Chart

WEATHER & CLIMATE OF ANTARCTICA
Grades 4-6 • p. 21

DRAW ANIMALS TO SCALE
Grades 4-6 • p. 24

ANTARCTICA SIZE & MAPS
Grades 4-6 • p. 26

FROM HERE TO ANTARCTICA
Grades 2-3 • p. 30

LOOKING THROUGH THE SPYGLASS
Grades 4-6 • p. 34

ANTARCTICA EXPLORER SCRAPBOOKS
Grades 4-6 • p. 37

SCIENCE	From Molecules to Organisms: Structure and Process		4-LS1-1; MS-LS1-5				
	Earth's Systems	2-ESS2-1; 3-ESS2-1; 3-ESS2-1; ESS2.D; 4-ESS2-1; MS-ESS2-5; ESS2.D			3-ESS1-1; 3-ESS2-2; ESS2.D		
	Earth's Place in the Universe	2-ESS1-1					
	Engineering Design	K-2-ETS1-1; 3-5-ETS1-3; MS-ETS1-3					
ENGLISH LANGUAGE ARTS	ELA - RI Key Ideas and Details	2-RI1; 2-RI2; 3-RI1; 3-RI3; 4-RI1; 4-RI3; 5-RI2; 5-RI3; 6-RI1	4-RI3; 5-RI3			4-RI1; 4-RI2; 4-RI3; 5-RI2; 5-RI3; 6-RI2; 6-RI3	
	ELA - RI Craft and Structure	2-RI4; 3-RI4; 4-RI4; 5-RI4; 6-RI4	4-RI5; 5-RI5			4-RI4; 5-RI4; 5-RI6; 6-RI4	
	ELA - RI Integration of Knowledge and Ideas	2-RI7; 3-RI7; 4-RI7; 5-RI7; 6-RI7	4-RI7; 6-RI7			4-RI7; 4-RI9; 5-RI7; 5-RI9; 6-RI7; 6-RI9	
	ELA - SL Comprehension and Collaboration	2-SL1.a.b.c; 2-SL3; 3-SL1.a.b.c.d; 3-SL3; 4-SL1.a.b.c.d; 4-SL3; 5-SL1.a.b.c.d; 5-SL3; 6-SL1.a.b.c.d; 6-SL2	4-SL1.a.b.c.d; 4-SL3; 5-SL1.a.b.c.d; 5-SL3; 6-SL1.a.b.c.d; 6-SL2		2-SL1.a.b.c; 2-SL2; 2-SL3; 3-SL1.a.b.c.d; 3-SL2; 3-SL3	2-SL1.a.b.c; 2-SL2; 2-SL3; 3-SL1.a.b.c.d; 3-SL2; 3-SL3	4-SL1.a.b.c.d; 5-SL1.a.b.c.d; 6-SL1.a.b.c.d
	ELA - SL Presentation of Knowledge and Ideas	2-SL6; 3-SL6; 6-SL4			2-SL5; 2-SL6; 3-SL5; 3-SL6	2-SL5; 2-SL6; 3-SL5; 3-SL6	4-SL4; 5-SL4; 6-SL4
	ELA - W Text Types and Purposes					2-W2; 2-W2	4-W2.a.b.c.d.e; 5-W2.a.b.c.d.e; 6-W2.a.b.c.d.e.f
	ELA - W Production and Distribution of Writing						4-W4; 4-W5; 4-W6; 5-W4; 5-W5; 5-W6; 6-W4; 6-W5; 6-W6
	ELA - W Research to Build and Present Knowledge					2-W8; 3-W8	4-W7; 4-W8; 4-W9; 5-W7; 5-W8; 5-W9; 6-W7; 6-W8; 6-W9
MATH	Math - Measurement and Data		4.MD3	4.MD1			
	Math - Geometry		4.G1; 5.G1; 6.G4	6.G1; 4			
ART	Arts - Visual Arts Creating: Anchor Standard 1				2-CR1.2.2a; 3-CR1.2.3a	2-CR1.2.2a; 3-CR1.2.3a	
	Arts - Visual Arts Creating: Anchor Standard 2		4-CR2.1.4a; CR2.3.4a; 5-CR2.1.5a; 6-CR2.1.6a			2-CR2.1.2a; 3-CR2.1.3a	
	Arts - Visual Arts Creating: Anchor Standard 9		6-CR3.1.6a			2-CR3.1.2a; 3-CR3.1.3a	
	Arts - Visual Arts Connecting: Anchor Standard 10				2-CN10.1.2a; 3-CN10.1.3a	2-CN10.1.2a; 3-CN10.1.3a	
SOCIAL STUDIES	Social Studies - Time, Continuity and Change					Middle Grades - The study of the past provides a representation of the history of communities, nations, and the world. Concepts such as chronology, causality, change, conflict, complexity, multiple perspectives, primary and secondary sources and cause and effect. That learning about the past requires the interpretation of sources, and that using varied sources provides the potential for a more balanced interpretive record of the past. The contributions of key persons, groups and events from the past and their influence on the present. Presenting findings in oral, written, visual or electronic formats.	
	Social Studies - People, Places and Environments			Middle Grades - Concepts such as: location, region, place and migration, as well as human and physical systems. Middle Grades - The use of a variety of maps, globes, graphic representations, and geospatial technologies to help investigate the relationship among people, places and environments.		Early Grades - The theme of people, places and environments involved the study of location, place, and the interactions of people with their surroundings Early Grades - Concepts such as location, direction, distance, and scale. Early Grades - Tools such as maps, globes and geospatial technologies in investigating the relationships among people, places and environments. Early Grades - Creating illustrations and composing answers to geographic questions about people, places and environments.	Middle Grades - The theme of people, places and environments involved the study of the relationships between human populations in different locations and geographic phenomena such as climate, vegetation and natural resources.
	Social Studies - Individual Development and Identity					Middle Grades - How personal, social, cultural and environmental facets contribute to the development and the growth of personal identity. That individuals' choices influence identity and development. That perceptions are interpretations of information about individuals and events, and can be influenced by bias and stereotypes. Creating identity portraits that describe the factors that make them unique and shape development.	

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Standards Alignment Chart		A MODERN ANTARCTIC EXPLORER Grades 2-6 • p. 39	ANTARCTIC PREDATOR ADAPTATIONS Grades 2-3 • p. 42	ADAPTATION SURVIVAL STORIES Grades 2-3 • p. 43	HUMAN MADE ADÉLIE PENGUIN PERILS Grades 4-6 • p. 45	RECYCLED PLASTICS PENGUIN SCULPTURE Grades 4-6 • p. 47	WHERE DO ADÉLIE PENGUINS MIGRATE IN WINTER Grades 4-6 • p. 50
SCIENCE	From Molecules to Organisms: Structure and Process						4-LS1-1; 4-LS1-2; LS1.D
	Ecosystems: Interactions, Energy and Dynamics		3-LS2-1; LS2.C; 3-LS4-2; LS4.B				5-LS2-1; LS2.A; MS-LS2-1; LS2.A
	Earth and Human Activity				4-ESS3-1; 4-ESS3-2; ESS3.B; ETS1.B; 5-ESS3-1; ESS3.C; MS-ESS3-4; MS-ESS3-5; ESS3.C; ESS3.D	4-ESS3-1; 4-ESS3-2; ESS3.B; ETS1.B; 5-ESS3-1; ESS3.C; MS-ESS3-4; MS-ESS3-5; ESS3.C; ESS3.D	
	Biological Evolution: Unity and Diversity			2-LS4-1; 3-LS4-2; 3-LS3-3; 3-LS4-4; LS4.B; LS4.C			
	Heredity: Inheritance and Variation of Traits			3-LS3-1; 3-LS3-2; LS3.A; LS3.B			
ENGLISH LANGUAGE ARTS	ELA - RI Key Ideas and Details		2-RI1; 2-RI3; 3-RI1; 3-RI3	2-RI1; 2-RI3; 3-RI1; 3-RI3	4-RI1; 4-RI2; 4-RI3; 5-RI2; 5-RI3; 6-RI2; 6-RI3		
	ELA - RI Craft and Structure		2-RI4; 3-RI4	2-RI4; 3-RI4	4-RI4; 4-RI5; 5-RI4; 5-RI5; 6-RI4		
	ELA - RI Integration of Knowledge and Ideas			2-RI9; 3-RI9	4-RI7; 4-RI9; 5-RI7; 5-RI9; 6-RI7; 6-RI9		
	ELA - SL Comprehension and Collaboration		2-SL1.a.b.c; 2-SL2; 2-SL3; 3-SL1.a.b.c.d; 3-SL2; 3-SL3		4-SL1.a.b.c.d; 4-SL2; 4-SL3; 5-SL1.a.b.c.d; 5-SL3; 6-SL1.a.b.c.d; 6-SL2; 6-SL3	4-SL1.a.b.c.d; 4-SL2; 4-SL3; 5-SL1.a.b.c.d; 5-SL3; 6-SL1.a.b.c.d; 6-SL2; 6-SL3	4-SL1.a.b.c.d; 4-SL2; 4-SL3; 5-SL1.a.b.c.d; 5-SL3; 6-SL1.a.b.c.d; 6-SL2; 6-SL3
	ELA - SL Presentation of Knowledge and Ideas		2-SL5; 2-SL6; 3-SL5; 3-SL6		4-SL4; 4-SL5; 5-SL4; 5-SL5; 6-SL4; 6-SL5		
	ELA - W Text Types and Purposes			2-W2; 3-W2.a.b.c.d	4-W2.a.b.c.d.e; 5-W2.a.b.c.d.e; 6-W2.a.b.c.d.e.f		
	ELA - W Production and Distribution of Writing				4-W4; 4-W5; 5-W4; 5-W5; 6-W4; 6-W5		
	ELA - W Research to Build and Present Knowledge			2-W7; 2-W8; 3-W7; 3-W8	4-W7; 4-W8; 4-W9; 5-W7; 5-W8; 5-W9; 6-W7; 6-W8; 6-W9		
ART	Arts - Visual Arts Creating: Anchor Standard 1	2-CR1.2.2a; 3-CR1.2.3a	2-CR1.1.2a; 2-CR1.2.2a; 3-CR1.1.3a; 3-CR1.2.3a			4-CR1.1.4a; 5-CR1.1.5a; 6-CR1.1.6a	
	Arts - Visual Arts Creating: Anchor Standard 2	2-CR2.3.2a; 3-CR2.3.3a; 4-CR2.1.4a; 5-CR2.1.5a; 6-CR2.1.6a	2-CR2.1.2a; 3-CR2.1.3a			4-CR2.1.4a; 5-CR2.1.5a; 6-CR2.1.6a	
	Arts - Visual Arts Creating: Anchor Standard 9		2-CR3.1.2a; 3-CR3.1.3a				
	Arts - Visual Arts Presenting: Anchor Standard 5		3-PR5.1.3a			4-PR5.1.4a; 5-PR5.1.5a; 6-PR5.1.6a	
	Arts - Visual Arts Presenting: Anchor Standard 6		2-PR6.1.2a				
	Arts - Visual Arts Connecting: Anchor Standard 10		2-CN10.1.2a; 3-CN10.1.3a			5-CN10.1.5a; 6-CN10.1.6a	
	Arts - Visual Arts Connecting: Anchor Standard 11					5-CN11.1.5a; 6-CN11.1.6a	
SOCIAL STUDIES	Social Studies - Time, Continuity and Change	Early Grades - Key people, events and places associated with the history of community, nation and world. Middle Grades - The study of the past provides a representation of the history of communities, nations, and the world. The contributions of key persons, groups and events from the past and their influence on the present.					
	Social Studies - People, Places and Environments	Early Grades - The theme of people, places and environments involves the study of location, place, and the interactions of people with their environment. Middle Grades - The theme of people, places and environments involved the study of the relationships between human populations in different locations and geographic phenomena such as climate, vegetation and natural resources.					Middle Grades - The use of a variety of maps, globes, graphic representations and geospatial technologies to help investigate the relationships among people, places and environments.
	Social Studies - Individual Development and Identity	Early Grades - People's interactions with their social and physical surroundings influence individual identity and growth.					

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Standards Alignment Chart

CAN YOU WADDLE LIKE AN ADÉLIE PENGUIN
Grades 4-6 • p. 52

ADELIE PENGUIN SURVEYS
Grades 2-3 • p. 55

INFOGRAPHICS: SHOW, DON'T TELL
Grades 4-6 • p. 59

	From Molecules to Organisms: Structure and Process	4-LS1-1; LS1.A		4-LS1-1; 4-LS1-2; MS-LS1-4; MS-LS1-5
SCIENCE	Ecosystems: Interactions, Energy and Dynamics		3-LS2-1	5-LS2-1; MS-LS2-2
	Engineering Design	3-5-ETS1-2; 3-5-ETS1-3; ETS1.B	K-2-ETS1-1; K-2-ETS1-2	3-5ETS1-1
	Biological Evolution: Unity and Diversity		2-LS4-1; 3-LS4-2; 3-LS4-3; 3-LS4-4	MS-LS4-3; MS-LS4-5; MS-LS4-6
	Motion and Stability: Forces and Interactions	MS-PS2-2		
	Energy	4-PS3-1		
ENGLISH LANGUAGE ARTS	ELA - RI Key Ideas and Details		2-RI1; 2-RI3; 3-RI3	4-RI1; 4-RI2; 4-RI3; 5-RI2; 5-RI3; 6-RI2; 6-RI3
	ELA - RI Craft and Structure		2-RI4; 3-RI4	4-RI4; 4-RI5; 5-RI4; 5-RI5; 6-RI4
	ELA - RI Integration of Knowledge and Ideas		3-RI7	4-RI7; 4-RI9; 5-RI7; 5-RI9; 6-RI7; 6-RI9
	ELA - SL Comprehension and Collaboration	4-SL1a.b.c.d; 4-SL2; 4-SL3; 5-SL1a.b.c.d; 5-SL3; 6-SL1.a.b.c.d; 6-SL2; 6-SL3	2-SL1a.b.c; 2-SL2; 2-SL3; 3-SL1a.b.c.d; 3-SL3	4-SL1a.b.c.d; 4-SL2; 4-SL3; 5-SL1a.b.c.d; 5-SL3; 6-SL1.a.b.c.d; 6-SL2; 6-SL3
	ELA - SL Presentation of Knowledge and Ideas		2-SL5; 2-SL6; 3-SL5; 3-SL6	4-SL4; 4-SL5; 5-SL4; 5-SL5; 6-SL4; 6-SL5
	ELA - W Research to Build and Present Knowledge			4-W7; 4-W8; 4-W9; 5-W7; 5-W8; 5-W9; 6-W7; 6-W8; 6-W9
MATH	Math - Measurement and Data	4.MD1; 2	2.MD10; 3.MD3	
ART	Arts - Visual Arts Creating: Anchor Standard 1			4-CR1.1.4a; 5-CR1.1.5a; 6-CR1.1.6a

