PLTW Launch Standards Connection First Grade



Connections to Standards in PLTW Launch

PLTW curriculum is designed to empower students to thrive in an evolving world. As a part of the design process when developing and updating our curriculum, we focus on connections to a variety of standards. PLTW Launch modules connect to standards in the following:

Next Generation Science Standards	Page	2
Computer Science Teachers Association K-12 Computer Science Standards	Page	12
International Society for Technology in Education Standards for Students	Page	16
Common Core State Standards English Language Arts - First Grade	Page	20
Common Core State Standards Mathematics - First Grade	Page	24

☐ Light and Sound

Animal Adaptations

☐ Light: Observing the Sun, Moon, and Stars

Waves and Their Applications in Technologies for Information Transfer 1-PS4-1 Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. ✓ Light and Sound ☐ Animated Storytelling ☐ Light: Observing the Sun. Moon, and Stars Designs Inspired by Nature Animal Adaptations 1-PS4-2 Make observations to construct an evidence-based account that objects in darkness can be seen only when illuminated. ✓ Light and Sound Animated Storytelling ✓ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations 1-PS4-3 Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light. ✓ Light and Sound ☐ Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature ☐ Animal Adaptations 1-PS4-4 Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. ☐ Animated Storytelling ✓ Light and Sound $\ \square$ Light: Observing the Sun, Moon, and Stars ☐ Designs Inspired by Nature □ Animal Adaptations From Molecules to Organisms: Structures and Processes 1-LS1-1 Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.

☐ Animated Storytelling

1-LS1-2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. ☐ Light and Sound ☐ Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature ☐ Animal Adaptations Heredity: Inheritance and Variation of Traits 1-LS3-1 Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents. ☐ Light and Sound Animated Storvtelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature ☐ Animal Adaptations Earth's Place in the Universe 1-ESS1-1 Use observations of the sun, moon, and stars to describe patterns that can be predicted. ☐ Light and Sound ☐ Animated Storytelling ☑ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations 1-ESS1-2 Make observations at different times of year to relate the amount of daylight to the time of year. ☐ Animated Storytelling ☐ Light and Sound ✓ Light: Observing the Sun, Moon, and Stars ☐ Designs Inspired by Nature ☐ Animal Adaptations **Engineering Design** K-2-ETS1-1 Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. ✓ Light and Sound Animated Storytelling ✓ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature

Next Generation Science Standards

Animal Adaptations

Next Generation Science Standards K-2-FTS1-2 Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. ✓ Light and Sound Animated Storytelling ✓ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature Animal Adaptations K-2-ETS1-3 Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs. ✓ Light and Sound Animated Storytelling ☑ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature ☐ Animal Adaptations **Science and Engineering Practices** Asking Questions and Defining Problems Asking questions and defining problems in K-2 builds on prior experiences and progresses to simple descriptive questions that can be tested. ✓ Light and Sound Animated Storytelling Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature Animal Adaptations **Developing and Using Models** Modeling in K-2 builds on prior experiences and progresses to include using and developing models (i.e., diagram, drawing, physical replica, diorama, dramatization, or storyboard) that represent concrete events or design solutions. Light and Sound Animated Storytelling Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature Animal Adaptations

Planning and Carrying Out Investigations

Animal Adaptations

Planning and carrying out investigations to answer questions or test solutions to problems in K–2 builds on prior experiences and progresses to simple investigations, based on fair tests, which provide data to support explanations or design solutions.

✓ Light and Sound
 ✓ Light: Observing the Sun, Moon, and Stars
 ✓ Designs Inspired by Nature

✓ Light and Sound

Animal Adaptations

☑ Light: Observing the Sun, Moon, and Stars

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	and Interpreting Data data in K–2 builds on prior experiences and pr ons.	ogre	esses to collecting, recording, and sharing
✓	Light and Sound Light: Observing the Sun, Moon, and Stars Animal Adaptations		Animated Storytelling Designs Inspired by Nature
Mathemat	hematics and Computational Thinking ical and computational thinking in K–2 builds og that mathematics can be used to describe th		, , ,
✓	Light and Sound Light: Observing the Sun, Moon, and Stars Animal Adaptations		Animated Storytelling Designs Inspired by Nature
Constructi	ng Explanations and Designing Solutions ng explanations and designing solutions in K-2 evidence and ideas in constructing evidence-b solutions.		
✓	Light and Sound Light: Observing the Sun, Moon, and Stars Animal Adaptations		Animated Storytelling Designs Inspired by Nature
Engaging	in Argument from Evidence in argument from evidence in K–2 builds on pr representations about the natural and designe		1 0 1 0
_	Light and Sound Light: Observing the Sun, Moon, and Stars Animal Adaptations		Animated Storytelling Designs Inspired by Nature
Obtaining,	Evaluating, and Communicating Information evaluating, and communicating information in and texts to communicate new information.		2 builds on prior experiences and uses

Animated Storytelling

☐ Light and Sound

Animal Adaptations

☐ Light: Observing the Sun, Moon, and Stars

Disciplinary Core Ideas (K-2) Physical Science PS4.A Wave Properties • Sound can make matter vibrate, and vibrating matter can make sound. ✓ Light and Sound ☐ Animated Storytelling ☐ Light: Observing the Sun. Moon, and Stars Designs Inspired by Nature □ Animal Adaptations PS4.B Electromagnetic Radiation • Objects can be seen if light is available to illuminate them or if they give off their own light. ✓ Light and Sound ☐ Animated Storytelling ✓ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations PS4.B Electromagnetic Radiation • Some materials allow light to pass through them, others allow only some light through and others block all the light and create a dark shadow on any surface beyond them, where the light cannot reach. Mirrors can be used to redirect a light beam. ✓ Light and Sound ☐ Animated Storytelling ✓ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations PS4.C Information Technologies and Instrumentation • People also use a variety of devices to communicate (send and receive information) over long distances. ✓ Light and Sound ☐ Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature ☐ Animal Adaptations Life Science LS1.A Structure and Function • All organisms have external parts. Different animals use their body parts in different ways to see, hear, grasp objects, protect themselves, move from place to place, and seek, find, and take in food, water and air. Plants also have different parts (roots, stems, leaves, flowers, fruits) that help them survive and grow.

☐ Animated Storytelling

LS1.B Growth and Development of Organisms • Adult plants and animals can have young. In many kinds of animals, parents and the offspring themselves engage in behaviors that help the offspring to survive. ☐ Light and Sound ☐ Animated Storytelling ☐ Light: Observing the Sun. Moon, and Stars Designs Inspired by Nature ☐ Animal Adaptations LS1.D Information Processing • Animals have body parts that capture and convey different kinds of information needed for growth and survival. Animals respond to these inputs with behaviors that help them survive. Plants also respond to some external inputs. ☐ Animated Storytelling ☐ Light and Sound ☐ Light: Observing the Sun. Moon, and Stars Designs Inspired by Nature Animal Adaptations LS3.A Inheritance of Traits • Young animals are very much, but not exactly like, their parents. Plants also are very much, but not exactly, like their parents. ☐ Light and Sound ☐ Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations LS3.B Variation of Traits • Individuals of the same kind of plant or animal are recognizable as similar but can also vary in many ways. ☐ Light and Sound ☐ Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations Earth and Space Science ESS1.A The Universe and its Stars • Patterns of the motion of the sun, moon, and stars in the sky can be observed, described, and predicted. ☐ Light and Sound ☐ Animated Storytelling ☑ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations

Animal Adaptations

ESS1.B Earth and the Solar System • Seasonal patterns of sunrise and sunset can be obser	ved, described, and predicted.
 □ Light and Sound ☑ Light: Observing the Sun, Moon, and Stars □ Animal Adaptations 	Animated StorytellingDesigns Inspired by Nature
Engineering, Technology, and Applications of Science ETS1.A Defining and Delimiting Engineering Problems Asking questions, making observations, and gathering problems.	information are helpful in thinking about
✓ Light and Sound	Animated Storytelling
Light: Observing the Sun, Moon, and StarsAnimal Adaptations	✓ Designs Inspired by Nature
ETS1.A Defining and Delimiting Engineering Problems Before beginning to design a solution, it is important to	clearly understand the problem.
 ✓ Light and Sound ✓ Light: Observing the Sun, Moon, and Stars ✓ Animal Adaptations 	Animated StorytellingDesigns Inspired by Nature
ETS1.B Developing Possible Solutions Designs can be conveyed through sketches, drawings useful in communicating ideas for a problem's solutions	
 ✓ Light and Sound ✓ Light: Observing the Sun, Moon, and Stars ✓ Animal Adaptations 	Animated StorytellingDesigns Inspired by Nature
ETS1.C Optimizing the Design Solution	
Because there is always more than one possible solutidesigns.	on to a problem, it is useful to compare and tes
✓ Light and Sound	Animated Storytelling
✓ Light: Observing the Sun, Moon, and Stars	Designs Inspired by Nature

☐ Light: Observing the Sun, Moon, and Stars

Animal Adaptations

Crosscutting Concepts (K-2)

Patterns – Observed patterns in nature guide organization and classification and prompt guestions about relationships and causes underlying them. • Patterns in the natural and human designed world can be observed, used to describe phenomena, and used as evidence. Animated Storytelling Light and Sound ✓ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations Cause and Effect: Mechanism and Prediction – Events have causes, sometimes simple, sometimes multifaceted. Deciphering causal relationships, and the mechanisms by which they are mediated, is a major activity of science and engineering. • Events have causes that generate observable patterns. ☐ Light and Sound Animated Storytelling ☐ Light: Observing the Sun. Moon, and Stars Designs Inspired by Nature □ Animal Adaptations • Simple tests can be designed to gather evidence to support or refute student ideas about causes. ✓ Light and Sound ☐ Animated Storytelling ✓ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations Systems and System Models – A system is an organized group of related objects or components; models can be used for understanding and predicting the behavior of systems. • Objects and organisms can be described in terms of their parts. ☐ Light and Sound ☐ Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars ☐ Designs Inspired by Nature Animal Adaptations • Systems in the natural and designed world have parts that work together. ☐ Light and Sound ☐ Animated Storytelling

Structure and Function – The way an object is shaped or structured determines many of its properties and functions.			
• The shape and stability of structures of natural and designed objects are related to their function(s).			
□ Light and Sound□ Light: Observing the Sun, Moon, and Star☑ Animal Adaptations	 □ Animated Storytelling rs		
Connections to Nature of Science (K	-2)		
Science Knowledge is Based on Empirical Evidence			
 Scientists look for patterns and order when making 	observations about the world.		
□ Light and Sound□ Light: Observing the Sun, Moon, and Star□ Animal Adaptations	 □ Animated Storytelling rs		
Scientific Investigations Use a Variety of Methods			
 Science investigations begin with a question. 			
✓ Light and Sound☐ Light: Observing the Sun, Moon, and Star☐ Animal Adaptations	☐ Animated Storytelling S ☐ Designs Inspired by Nature		
Scientific Knowledge Assumes an Order and Consis	tency in Natural Systems		
• Science assumes natural events happen today as	they happened in the past.		
□ Light and Sound☑ Light: Observing the Sun, Moon, and Star□ Animal Adaptations	☐ Animated Storytelling s ☐ Designs Inspired by Nature		
Many events are repeated.			
□ Light and Sound☑ Light: Observing the Sun, Moon, and Star□ Animal Adaptations	☐ Animated Storytelling s ☐ Designs Inspired by Nature		
Scientific Investigations Use a Variety of Methods			
 Scientists use different ways to study the world. 			
✓ Light and Sound☐ Light: Observing the Sun, Moon, and Star☐ Animal Adaptations	☐ Animated Storytelling □ Designs Inspired by Nature		

Connections to Engineering, Technology, and Applications of Science (K-2)

Influence of Engineering, Technology, and Science on	Society and the Natural World
 People depend on various technologies in their lives; technology. 	human life would be very different without
✓ Light and Sound☐ Light: Observing the Sun, Moon, and Stars☐ Animal Adaptations	Animated StorytellingDesigns Inspired by Nature
 Every human-made product is designed by applying susing materials derived from the natural world. 	some knowledge of the natural world and is built
 □ Light and Sound □ Light: Observing the Sun, Moon, and Stars ☑ Animal Adaptations 	□ Animated Storytelling☑ Designs Inspired by Nature

In Spring 2023 PLTW submitted all necessary documentation required by the Computer Science Teachers Association (CSTA) for a crosswalk review of our Launch and Gateway curricula by the CSTA Standards Review Team. While we anticipate approval and validation by CSTA, the review is pending.

Computing Systems			
Devices 1A-CS-01			
□ Light and Sound□ Light: Observing the Sun, Moon, and Stars□ Animal Adaptations	Animated StorytellingDesigns Inspired by Nature		
Hardware & Software			
1A-CS-02 Use appropriate terminology in identifying and describin of computing systems (hardware).	ng the function of common physical components		
☐ Light and Sound	Animated Storytelling		
☐ Light: Observing the Sun, Moon, and Stars☐ Animal Adaptations	☐ Designs Inspired by Nature		
Troubleshooting			
1A-CS-03			
Describe basic hardware and software problems using a	accurate terminology.		
☐ Light and Sound	Animated Storytelling		
☐ Light: Observing the Sun, Moon, and Stars☐ Animal Adaptations	☐ Designs Inspired by Nature		
Networks and the Internet			
Cybersecurity			
1A-NI-04 Explain what passwords are and why we use them, and information from unauthorized access.	I use strong passwords to protect devices and		
$^{\square}$ Light and Sound	Animated Storytelling		
☐ Light: Observing the Sun, Moon, and Stars ☐ Animal Adaptations	☐ Designs Inspired by Nature		

Data and Analysis	
Storage 1A-DA-05 Store, copy, search, retrieve, modify, and delete informa information stored as data.	ation using a computing device and define the
□ Light and Sound□ Light: Observing the Sun, Moon, and Stars□ Animal Adaptations	Animated StorytellingDesigns Inspired by Nature
Inference & Models 1A-DA-07 Identify and describe patterns in data visualizations, suc	ch as charts or graphs, to make predictions.
 □ Light and Sound ☑ Light: Observing the Sun, Moon, and Stars ☑ Animal Adaptations 	□ Animated Storytelling□ Designs Inspired by Nature
Algorithms and Programming	
Algorithms 1A-AP-08 Model daily processes by creating and following algorith complete tasks.	ms (sets of step-by-step instructions) to
□ Light and Sound□ Light: Observing the Sun, Moon, and Stars□ Animal Adaptations	Animated StorytellingDesigns Inspired by Nature
Variables	
1A-AP-09 Model the way programs store and manipulate data by of information.	using numbers or other symbols to represent
□ Light and Sound□ Light: Observing the Sun, Moon, and Stars□ Animal Adaptations	Animated StorytellingDesigns Inspired by Nature
Control	
1A-AP-10	
Develop programs with sequences and simple loops, to	
☐ Light and Sound	Animated Storytelling
└─ Light: Observing the Sun, Moon, and Stars└─ Animal Adaptations	☐ Designs Inspired by Nature

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Modulari		
1A-AP-1 ^o Decompo	1 ose (break down) the steps needed to solve a p	roblem into a precise sequence of instructions.
	Light and Sound Light: Observing the Sun, Moon, and Stars Animal Adaptations	✓ Animated Storytelling✓ Designs Inspired by Nature
Program	Development	
1A-AP-12		
Develop	plans that describe a program's sequence of ev	ents, goals, and expected outcomes.
	Light and Sound Light: Observing the Sun, Moon, and Stars Animal Adaptations	✓ Animated Storytelling☐ Designs Inspired by Nature
1A-AP-1: Give attri	3 ibution when using the ideas and creations of ot	hers while developing programs.
	Light and Sound Light: Observing the Sun, Moon, and Stars Animal Adaptations	✓ Animated Storytelling□ Designs Inspired by Nature
1A-AP-14 Debug (id	4 dentify and fix) errors in an algorithm or program	that includes sequences and simple loops.
	Light and Sound Light: Observing the Sun, Moon, and Stars Animal Adaptations	✓ Animated Storytelling☐ Designs Inspired by Nature
_	5 rrect terminology, describe steps taken and cho development.	ices made during the iterative process of
	Light and Sound Light: Observing the Sun, Moon, and Stars Animal Adaptations	✓ Animated Storytelling☐ Designs Inspired by Nature

Impacts of Computing Culture 1A-IC-16 Compare how people live and work before and after the implementation or adoption of new computing technology. ☐ Light and Sound Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars ☐ Designs Inspired by Nature ☐ Animal Adaptations Social Interactions 1A-IC-17 Work respectfully and responsibly with others online. ✓ Light and Sound Animated Storytelling ✓ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature Animal Adaptations Safety Law & Ethics 1A-IC-18 Keep login information private, and log off of devices appropriately. ✓ Light and Sound Animated Storytelling

✓ Light: Observing the Sun, Moon, and Stars

Animal Adaptations

International Society for Technology in Education Standards for Students

Empowered Learner			
1a Students articulate and set personal learning goals, develop strategies leveraging technology to achieve them and reflect on the learning process itself to improve learning outcomes.			
□ Light and Sound□ Light: Observing the Sun, Moon, and Stars□ Animal Adaptations	✓ Animated Storytelling☐ Designs Inspired by Nature		
1c Students use technology to seek feedback that informs a their learning in a variety of ways.	and improves their practice and to demonstrate		
□ Light and Sound□ Light: Observing the Sun, Moon, and Stars□ Animal Adaptations	✓ Animated Storytelling☐ Designs Inspired by Nature		
Digital Citizen			
2a Students cultivate and manage their digital identity and r their actions in the digital world.	reputation and are aware of the permanence of		
☐ Light and Sound☐ Light: Observing the Sun, Moon, and Stars☐ Animal Adaptations	✓ Animated Storytelling□ Designs Inspired by Nature		
2b Students engage in positive, safe, legal and ethical beha interactions online or when using networked devices.	avior when using technology, including social		
□ Light and Sound□ Light: Observing the Sun, Moon, and Stars□ Animal Adaptations	✓ Animated Storytelling□ Designs Inspired by Nature		
2c Students demonstrate an understanding of and respect sharing intellectual property.	for the rights and obligations of using and		
 □ Light and Sound □ Light: Observing the Sun, Moon, and Stars □ Animal Adaptations 	✓ Animated Storytelling□ Designs Inspired by Nature		

2dStudents manage their personal data to maintain digital privacy and security and are aware of datacollection technology used to track their navigation online. ☐ Light and Sound Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations **Knowledge Constructor** 3d Students build knowledge by actively exploring real-world issues and problems, developing ideas and theories and pursuing answers and solutions. Light and Sound Animated Storvtelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature Animal Adaptations **Innovative Designer** 4a Students know and use a deliberate design process for generating ideas, testing theories, creating innovative artifacts or solving authentic problems. Animated Storytelling ✓ Light and Sound $\ \square$ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations 4b Students select and use digital tools to plan and manage a design process that considers design constraints and calculated risks. ☐ Light and Sound Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature ☐ Animal Adaptations 4c Students develop, test and refine prototypes as part of a cyclical design process. ✓ Light and Sound Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations

International Society for Technology in Education Standards for Students

International Society for Technology in Education Standards for Students 4d Students exhibit a tolerance for ambiguity, perseverance and the capacity to work with open-ended problems. ✓ Light and Sound Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations **Computational Thinker** 5a Students formulate problem definitions suited for technology-assisted methods such as data analysis. abstract models and algorithmic thinking in exploring and finding solutions. ☐ Light and Sound Animated Storvtelling $\ \square$ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature ☐ Animal Adaptations 5c Students break problems into component parts, extract key information, and develop descriptive models to understand complex systems or facilitate problem-solving. ✓ Light and Sound Animated Storytelling ☐ Light: Observing the Sun. Moon, and Stars Designs Inspired by Nature ☐ Animal Adaptations 5d Students understand how automation works and use algorithmic thinking to develop a sequence of steps to create and test automated solutions. ☐ Light and Sound Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature ☐ Animal Adaptations **Creative Communicator** 6a Students choose the appropriate platforms and tools for meeting the desired objectives of their creation or communication. ✓ Light and Sound Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature

☐ Animal Adaptations

International Society for Technology in Education Standards for Students 6b Students create original works or responsibly repurpose or remix digital resources into new creations. ☐ Light and Sound Animated Storvtelling $\ \square$ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations 6c Students communicate complex ideas clearly and effectively by creating or using a variety of digital objects such as visualizations, models or simulations. Light and Sound Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature Animal Adaptations 6d Students publish or present content that customizes the message and medium for their intended audiences. ✓ Light and Sound Animated Storytelling Designs Inspired by Nature ☐ Light: Observing the Sun, Moon, and Stars □ Animal Adaptations **Global Collaborator** 7c Students contribute constructively to project teams, assuming various roles and responsibilities to work effectively toward a common goal. Animated Storytelling ✓ Light and Sound

☐ Light: Observing the Sun, Moon, and Stars

□ Animal Adaptations

Common Core State Standards English Language Arts - First Grade

Reading Standards for Literature	
Key Ideas and Details CCSS.ELA-LITERACY.RL.1.1 Ask and answer questions about key details in a text.	
 ✓ Light and Sound ✓ Light: Observing the Sun, Moon, and Stars ✓ Animal Adaptations 	Animated StorytellingDesigns Inspired by Nature
CCSS.ELA-LITERACY.RL.1.2 Retell stories, including key details, and demonstrate un	nderstanding of their central message or lesson.
✓ Light and Sound☐ Light: Observing the Sun, Moon, and Stars☐ Animal Adaptations	Animated StorytellingDesigns Inspired by Nature
CCSS.ELA-LITERACY.RL.1.3 Describe characters, settings, and major events in a sto	ory, using key details.
✓ Light and Sound☐ Light: Observing the Sun, Moon, and Stars☐ Animal Adaptations	Animated StorytellingDesigns Inspired by Nature
Reading Informational Text	
Key Ideas and Details CCSS.ELA-LITERACY.RI.1.1 Ask and answer questions about key details in a text.	
 ✓ Light and Sound ✓ Light: Observing the Sun, Moon, and Stars ✓ Animal Adaptations 	□ Animated Storytelling✓ Designs Inspired by Nature
CCSS.ELA-LITERACY.RI.1.2 Identify the main topic and retell key details of a text.	
 ✓ Light and Sound ☐ Light: Observing the Sun, Moon, and Stars ☐ Animal Adaptations 	□ Animated Storytelling☑ Designs Inspired by Nature

Common Core State Standards English Language Arts - First Grade Range of Reading and Level of Text Complexity CCSS.ELA-LITERACY.RI.1.10 With prompting and support, read informational texts appropriately complex for grade 1. ☐ Light and Sound ☐ Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature ☐ Animal Adaptations **Writing Standards** Text Types and Purposes CCSS.ELA-LITERACY.W.1.3 Write narratives in which they recount two or more appropriately sequenced events, include some details regarding what happened, use temporal words to signal event order, and provide some sense of closure. ☐ Light and Sound Animated Storytelling Designs Inspired by Nature ☐ Light: Observing the Sun. Moon, and Stars □ Animal Adaptations Production and Distribution of Writing CCSS.ELA-LITERACY.W.1.6

With guidance and support from adults, use a variety of digital tools to produce and publish writing, including in collaboration with peers.

☐ Light and Sound	Animated Storytelling
\Box Light: Observing the Sun, Moon, and Stars	☐ Designs Inspired by Nature
□ Animal Adaptations	

Research to Build and Present Knowledge

CCSS.ELA-LITERACY.W.1.7

Participate in shared research and writing projects (e.g., explore a number of "how-to" books on a given topic and use them to write a sequence of instructions).

□ Light and Sound□ Light: Observing the Sun, Moon, and Stars□ Animal Adaptations	☐ Animated Storytelling✓ Designs Inspired by Nature
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CCSS.ELA-LITERACY.W.1.8

With guidance and support from adults, recall information from experiences or gather information from provided sources to answer a question.

☑ Light and Sound	☐ Animated Storytelling
☑ Light: Observing the Sun, Moon, and Stars	Designs Inspired by Nature
✓ Animal Adaptations	

Common Core State Standards English Language Arts - First Grade

Speaking and Listening Comprehension and Collaboration CCSS.ELA-LITERACY.SL.1.1 Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups. Animated Storytelling Light and Sound ☑ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature ☐ Animal Adaptations CCSS.ELA-LITERACY.SL.1.1.A Follow agreed-upon rules for discussions (e.g., listening to others with care, speaking one at a time about the topics and texts under discussion). ☐ Light and Sound Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations CCSS.ELA-LITERACY.SL.1.1.C Ask questions to clear up any confusion about the topics and texts under discussion. ☐ Light and Sound ☐ Animated Storytelling ☑ Light: Observing the Sun, Moon, and Stars ☐ Designs Inspired by Nature ☐ Animal Adaptations CCSS.ELA-LITERACY.SL.1.2 Ask and answer questions about key details in a text read aloud or information presented orally or through other media. ✓ Light and Sound Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature Animal Adaptations Presentation of Knowledge and Ideas CCSS.ELA-LITERACY.SL.1.4 Describe people, places, things, and events with relevant details, expressing ideas and feelings clearly. ☐ Light and Sound Animated Storytelling ☐ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature

Animal Adaptations

Common Core State Standards English Language Arts - First Grade

CCSS.ELA-LITERACY.SL.1.5 Add drawings or other visual displays to descriptions whitelings.	nen appropriate to clarify ideas, thoughts, and
 ✓ Light and Sound ✓ Light: Observing the Sun, Moon, and Stars ✓ Animal Adaptations 	□ Animated Storytelling☑ Designs Inspired by Nature
CCSS.ELA-LITERACY.SL.1.6 Produce complete sentences when appropriate to task	and situation.
 □ Light and Sound ☑ Light: Observing the Sun, Moon, and Stars 	☐ Animated Storytelling☐ Designs Inspired by Nature

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Animal Adaptations

Common Core State Standards Mathematics - First Grade

☐ Light and Sound

Animal Adaptations

Light: Observing the Sun, Moon, and Stars

Number and Operations in Base Ten Use place value understanding and properties of operations to add and subtract. CCSS.MATH.CONTENT.1.NBT.C.4 Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value. properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten. ☐ Light and Sound ☐ Animated Storytelling ☐ Light: Observing the Sun. Moon, and Stars Designs Inspired by Nature Animal Adaptations Measurement and Data Measure lengths indirectly and by iterating length units. CCSS.MATH.CONTENT.1.MD.A.1 Order three objects by length; compare the lengths of two objects indirectly by using a third object. ☐ Light and Sound ☐ Animated Storytelling Light: Observing the Sun, Moon, and Stars ☐ Designs Inspired by Nature ☐ Animal Adaptations Tell and write time. CCSS.MATH.CONTENT.1.MD.B.3 Tell and write time in hours and half-hours using analog and digital clocks. ☐ Light and Sound Animated Storytelling ✓ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature □ Animal Adaptations Represent and interpret data. CCSS.MATH.CONTENT.1.MD.C.4 Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.

☐ Animated Storytelling

Common Core State Standards Mathematics - First Grade

Geometry	
Reason with shapes and their attributes. CCSS.MATH.CONTENT.1.G.A.1 Distinguish between defining attributes (e.g., triangles ar attributes (e.g., color, orientation, overall size); build and	,
Light and Sound Light: Observing the Sun, Moon, and Stars Animal Adaptations CCSS.MATH.CONTENT.1.G.A.2 Compose two-dimensional shapes (rectangles, squares, circles) or three-dimensional shapes (cubes, right rectangles) to create a composite shape, and composite shape, and composite shape.	gular prisms, right circular cones, and right
□ Light and Sound□ Light: Observing the Sun, Moon, and Stars□ Animal Adaptations	□ Animated Storytelling☑ Designs Inspired by Nature
Mathematical Practices	
CCSS.MATH.PRACTICE.MP1 Make sense of problems and persevere in solving them.	
 ✓ Light and Sound ✓ Light: Observing the Sun, Moon, and Stars ✓ Animal Adaptations 	Animated StorytellingDesigns Inspired by Nature
CCSS.MATH.PRACTICE.MP2 Reason abstractly and quantitatively.	
 □ Light and Sound ☑ Light: Observing the Sun, Moon, and Stars ☑ Animal Adaptations 	Animated StorytellingDesigns Inspired by Nature
CCSS.MATH.PRACTICE.MP3 Construct viable arguments and critique the reasoning or	f others.
 ✓ Light and Sound ✓ Light: Observing the Sun, Moon, and Stars ✓ Animal Adaptations 	Animated StorytellingDesigns Inspired by Nature

Common Core State Standards Mathematics - First Grade CCSS.MATH.PRACTICE.MP4 Model with mathematics. Animated Storytelling ☐ Light and Sound ✓ Light: Observing the Sun. Moon, and Stars. ☐ Designs Inspired by Nature Animal Adaptations CCSS.MATH.PRACTICE.MP5 Use appropriate tools strategically. ✓ Light and Sound ☐ Animated Storytelling ☑ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature Animal Adaptations CCSS.MATH.PRACTICE.MP6 Attend to precision. Animated Storytelling ☐ Light and Sound ✓ Light: Observing the Sun, Moon, and Stars Designs Inspired by Nature Animal Adaptations CCSS.MATH.PRACTICE.MP7 Look for and make use of structure. Animated Storytelling ☐ Light and Sound ☐ Light: Observing the Sun, Moon, and Stars ☐ Designs Inspired by Nature

☐ Animal Adaptations

Look for and express regularity in repeated reasoning.

☐ Light: Observing the Sun, Moon, and Stars

CCSS.MATH.PRACTICE.MP8

☐ Light and Sound

☐ Animal Adaptations

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