PLTW Launch Standards Connection Kindergarten



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	11
Common Core State Standards English Language Arts - Kindergarten	Page	14
Common Core State Standards Mathematics - Kindergarten	Page	18

Motion and Stability: Forces and Inter-	actions	
K-PS2-1 Plan and conduct an investigation to compare the effe pushes and pulls on the motion of an object.	cts of different strengths or different directions of	
☐ Structure and Function: Exploring Design	☐ Animals and Algorithms	
✓ Pushes and Pulls	☐ Sunlight and Weather	
Structure and Function: Human Body	\square Living Things: Needs and Impacts	
K-PS2-2 Analyze data to determine if a design solution works a object with a push or a pull.	s intended to change the speed or direction of an	
☐ Structure and Function: Exploring Design	☐ Animals and Algorithms	
✓ Pushes and Pulls	☐ Sunlight and Weather	
$\ \square$ Structure and Function: Human Body	☐ Living Things: Needs and Impacts	
Energy		
K-PS3-1 Make observations to determine the effect of sunlight o	on Earth's surface.	
☐ Structure and Function: Exploring Design	☐ Animals and Algorithms	
☐ Pushes and Pulls	Sunlight and Weather	
Structure and Function: Human Body	$\ \square$ Living Things: Needs and Impacts	
K-PS3-2 Use tools and materials provided to design and build a sunlight on Earth's surface.	structure that will reduce the warming effect of	
☐ Structure and Function: Exploring Design	 Animals and Algorithms 	
☐ Pushes and Pulls	Sunlight and Weather	
☐ Structure and Function: Human Body	☐ Living Things: Needs and Impacts	
From Molecules to Organisms: Structures and Processes		
K-LS1-1 Use observations to describe patterns of what plants a	and animals (including humans) need to survive.	
☐ Structure and Function: Exploring Design	☐ Animals and Algorithms	
☐ Pushes and Pulls	☐ Sunlight and Weather	
☐ Structure and Function: Human Body	✓ Living Things: Needs and Impacts	

Earth's Systems	
K-ESS2-1 Use and share observations of local weather conditions	s to describe patterns over time.
 Structure and Function: Exploring Design Pushes and Pulls Structure and Function: Human Body 	 □ Animals and Algorithms ☑ Sunlight and Weather □ Living Things: Needs and Impacts
K-ESS2-2 Construct an argument supported by evidence for how change the environment to meet their needs.	
Structure and Function: Exploring DesignPushes and PullsStructure and Function: Human Body	□ Animals and Algorithms□ Sunlight and Weather☑ Living Things: Needs and Impacts
Earth and Human Activity	
Use a model to represent the relationship between the humans) and the places they live.	Animals and AlgorithmsSunlight and Weather
☐ Structure and Function: Human Body K-ESS3-2	Living Things: Needs and Impacts
Ask questions to obtain information about the purpose respond to, severe weather.	of weather forecasting to prepare for, and
Structure and Function: Exploring DesignPushes and PullsStructure and Function: Human Body	 □ Animals and Algorithms ☑ Sunlight and Weather □ Living Things: Needs and Impacts
K-ESS3-3 Communicate solutions that will reduce the impact of h things in the local environment.	umans on the land, water, air, and/or other living
 □ Structure and Function: Exploring Design □ Pushes and Pulls □ Structure and Function: Human Body 	 □ Animals and Algorithms □ Sunlight and Weather ✓ Living Things: Needs and Impacts

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.

- Structure and Function: Exploring Design
- Pushes and Pulls
- ✓ Structure and Function: Human Body
- Animals and Algorithms
- ✓ Sunlight and Weather
- ✓ Living Things: Needs and Impacts

K-2-ETS1-2

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.

- ✓ Structure and Function: Exploring Design.
- ✓ Pushes and Pulls
- ✓ Structure and Function: Human Body
- Animals and Algorithms
- ✓ Sunlight and Weather
- ✓ Living Things: Needs and Impacts

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.

- Structure and Function: Exploring Design
- Pushes and Pulls
- ✓ Structure and Function: Human Body
- Animals and Algorithms
- ✓ Sunlight and Weather
- Living Things: Needs and Impacts

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.

- ✓ Structure and Function: Exploring Design.
- Pushes and Pulls
- Structure and Function: Human Body
- Animals and Algorithms
- ✓ Sunlight and Weather
- ✓ Living Things: Needs and Impacts

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.

- ☑ Structure and Function: Exploring Design
- Pushes and Pulls
- ☑ Structure and Function: Human Body
- Animals and Algorithms
- ✓ Sunlight and Weather
- ✓ Living Things: Needs and Impacts

Planning and Carrying Out Investigations

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.

- Structure and Function: Exploring Design
- ✓ Pushes and Pulls
- ✓ Structure and Function: Human Body
- ☑ Animals and Algorithms
- ✓ Sunlight and Weather
- ✓ Living Things: Needs and Impacts

Analyzing and Interpreting Data

Analyzing data in K–2 builds on prior experiences and progresses to collecting, recording, and sharing observations.

- ✓ Structure and Function: Exploring Design
- ✓ Pushes and Pulls
- ✓ Structure and Function: Human Body
- Animals and Algorithms
- Sunlight and Weather
- ✓ Living Things: Needs and Impacts

Using Mathematics and Computational Thinking

Mathematical and computational thinking in K–2 builds on prior experience and progresses to recognizing that mathematics can be used to describe the natural and designed world(s).

- ☐ Structure and Function: Exploring Design
- Pushes and Pulls
- Structure and Function: Human Body
- Animals and Algorithms
- Sunlight and Weather
- ☐ Living Things: Needs and Impacts

Constructing Explanations and Designing Solutions

Constructing explanations and designing solutions in K–2 builds on prior experiences and progresses to the use of evidence and ideas in constructing evidence-based accounts of natural phenomena and designing solutions.

- Structure and Function: Exploring Design
- ✓ Pushes and Pulls
- Structure and Function: Human Body
- Animals and Algorithms
- ✓ Sunlight and Weather
- ✓ Living Things: Needs and Impacts

Engaging in Argument from Evidence

Engaging in argument from evidence in K–2 builds on prior experiences and progresses to comparing ideas and representations about the natural and designed world(s).

- ✓ Structure and Function: Exploring Design
- ✓ Pushes and Pulls
- ✓ Structure and Function: Human Body
- Animals and Algorithms
- Sunlight and Weather
- ✓ Living Things: Needs and Impacts

Next Generation Science Standards Obtaining, Evaluating, and Communicating Information Obtaining, evaluating, and communicating information in K–2 builds on prior experiences and uses observations and texts to communicate new information. Animals and Algorithms Structure and Function: Exploring Design Pushes and Pulls Sunlight and Weather Structure and Function: Human Body ✓ Living Things: Needs and Impacts **Disciplinary Core Ideas (K-2) Physical Science** PS2.A Forces and Motion • Pushes and pulls can have different strengths and directions. ☐ Animals and Algorithms ☐ Structure and Function: Exploring Design Pushes and Pulls ☐ Sunlight and Weather ☐ Living Things: Needs and Impacts ☐ Structure and Function: Human Body PS2.A Forces and Motion • Pushing or pulling on an object can change the speed or direction of its motion and can start or stop it. ☐ Animals and Algorithms ☐ Structure and Function: Exploring Design Pushes and Pulls ☐ Sunlight and Weather ☐ Structure and Function: Human Body ☐ Living Things: Needs and Impacts **PS2.B Types of Interactions** • When objects touch or collide, they push on one another and can change motion. ☐ Animals and Algorithms ☐ Structure and Function: Exploring Design Pushes and Pulls ☐ Sunlight and Weather ☐ Living Things: Needs and Impacts ☐ Structure and Function: Human Body PS3.B Conservation of Energy and Energy Transfer • Sunlight warms Earth's surface. ☐ Animals and Algorithms ☐ Structure and Function: Exploring Design Pushes and Pulls Sunlight and Weather ☐ Structure and Function: Human Body ☐ Living Things: Needs and Impacts PS3.C Relationship Between Energy and Forces • A bigger push or pull makes things speed up or slow down more quickly. ☐ Animals and Algorithms ☐ Structure and Function: Exploring Design

Pushes and Pulls

☐ Structure and Function: Human Body

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☐ Sunlight and Weather

☐ Living Things: Needs and Impacts

Life Science

 LS1.C Organization for Matter and Energy Flow in Organ All animals need food in order to live and grow. They o 	
animals. Plants need water and light to live and grow.	btain their rood from plants of from other
☐ Structure and Function: Exploring Design	☐ Animals and Algorithms
☐ Pushes and Pulls☐ Structure and Function: Human Body	☐ Sunlight and Weather☑ Living Things: Needs and Impacts
Earth and Space Science ESS2.D Weather and Climate	
• Weather is the combination of sunlight, wind, snow or r time. People measure these conditions to describe and r time.	
☐ Structure and Function: Exploring Design	☐ Animals and Algorithms
☐ Pushes and Pulls	Sunlight and Weather
$\ \square$ Structure and Function: Human Body	☐ Living Things: Needs and Impacts
ESS2.E BiogeologyPlants and animals can change their environment.	
☐ Structure and Function: Exploring Design	☐ Animals and Algorithms
☐ Pushes and Pulls	☐ Sunlight and Weather
Structure and Function: Human Body	Living Things: Needs and Impacts
ESS3.A Natural Resources	
 Living things need water, air, and resources from the latthey need. Humans use natural resources for everything 	•
☐ Structure and Function: Exploring Design	☐ Animals and Algorithms
☐ Pushes and Pulls	☐ Sunlight and Weather
Structure and Function: Human Body	Living Things: Needs and Impacts
ESS3.B Natural Hazards	
• Some kinds of severe weather are more likely than oth forecast severe weather so that the communities can pre-	•
☐ Structure and Function: Exploring Design	☐ Animals and Algorithms
Pushes and Pulls	Sunlight and Weather
$\ \square$ Structure and Function: Human Body	☐ Living Things: Needs and Impacts

Thing	S Human impacts on Earth Systems is that people do to live comfortably can affect the duce their impacts on the land, water, air, and othe		· · · · · · · · · · · · · · · · · · ·
	 Structure and Function: Exploring Design Pushes and Pulls Structure and Function: Human Body 		Animals and Algorithms Sunlight and Weather Living Things: Needs and Impacts
ETS1.	ering, Technology, and Applications of Science A Defining and Delimiting Engineering Problems g questions, making observations, and gathering ns.	info	ormation are helpful in thinking about
	✓ Structure and Function: Exploring Design	✓	Animals and Algorithms
	✓ Pushes and Pulls	✓	Sunlight and Weather
	☑ Structure and Function: Human Body	✓	Living Things: Needs and Impacts
• Desig	B Developing Possible Solutions Ins can be conveyed through sketches, drawings, In communicating ideas for a problem's solutions		•
	✓ Structure and Function: Exploring Design	✓	Animals and Algorithms
	✓ Pushes and Pulls	✓	Sunlight and Weather
	☑ Structure and Function: Human Body	✓	Living Things: Needs and Impacts
	C Optimizing the Design Solution use there is always more than one possible solutions.	on t	o a problem, it is useful to compare and test
	✓ Structure and Function: Exploring Design	✓	Animals and Algorithms
	✓ Pushes and Pulls	✓	Sunlight and Weather
	✓ Structure and Function: Human Body	✓	Living Things: Needs and Impacts
Cros	scutting Concepts (K-2)		
	s – Observed patterns in nature guide organizationships and causes underlying them.	n a	and classification and prompt questions about
	rns in the natural and human designed world can s evidence.	be	observed, used to describe phenomena, and
	☐ Structure and Function: Exploring Design	✓	Animals and Algorithms
	☐ Pushes and Pulls	✓	Sunlight and Weather
	☐ Structure and Function: Human Body	✓	Living Things: Needs and Impacts

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. Animals and Algorithms ☐ Structure and Function: Exploring Design Pushes and Pulls ✓ Sunlight and Weather ☐ Structure and Function: Human Body ✓ Living Things: Needs and Impacts • Simple tests can be designed to gather evidence to support or refute student ideas about causes. ☐ Animals and Algorithms ☐ Structure and Function: Exploring Design Pushes and Pulls ☐ Sunlight and Weather ☐ Structure and Function: Human Body ☐ Living Things: Needs and Impacts 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. • Systems in the natural and designed world have parts that work together. ☐ Animals and Algorithms ☐ Structure and Function: Exploring Design Pushes and Pulls ☐ Sunlight and Weather ✓ Structure and Function: Human Body ✓ Living Things: Needs and Impacts 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). Animals and Algorithms Structure and Function: Exploring Design Pushes and Pulls Sunlight and Weather Structure and Function: Human Body ☐ Living Things: Needs and Impacts **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. ☐ Animals and Algorithms ☐ Structure and Function: Exploring Design Pushes and Pulls Sunlight and Weather ☐ Structure and Function: Human Body ✓ Living Things: Needs and Impacts

Cause and Effect: Mechanism and Prediction – Events have causes, sometimes simple, sometimes

Scientific Investigations Use a Variety of Methods • Scientists use different ways to study the world. ☐ Animals and Algorithms ☐ Structure and Function: Exploring Design Pushes and Pulls Sunlight and Weather ☐ Structure and Function: Human Body ☐ Living Things: Needs and Impacts Connections to Engineering, Technology, and Applications of Science (K-2)Interdependence of Science, Engineering, and Technology People encounter questions about the natural world every day. ☐ Animals and Algorithms ☐ Structure and Function: Exploring Design ☐ Pushes and Pulls Sunlight and Weather ☐ Structure and Function: Human Body ☐ Living Things: Needs and Impacts Influence of Engineering, Technology, and Science on Society and the Natural World • People depend on various technologies in their lives; human life would be very different without technology. ☐ Animals and Algorithms ☐ Structure and Function: Exploring Design ☐ Pushes and Pulls Sunlight and Weather ☐ Structure and Function: Human Body ☐ Living Things: Needs and Impacts

Next Generation Science Standards

Computer Science Teachers Association K-12 Computer Science

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	
Select and operate appropriate software to perform a different needs and preferences for the technology the	•
 Structure and Function: Exploring Design Pushes and Pulls Structure and Function: Human Body 	Animals and AlgorithmsSunlight and WeatherLiving Things: Needs and Impacts
Data and Analysis	
Collection Visualization & Transformation 1A-DA-06 Collect and present the same data in various visual fo	rmats.
 Structure and Function: Exploring Design Pushes and Pulls Structure and Function: Human Body 	□ Animals and Algorithms✓ Sunlight and Weather□ Living Things: Needs and Impacts
Inference & Models 1A-DA-07 Identify and describe patterns in data visualizations, s	uch as charts or graphs, to make predictions.
Structure and Function: Exploring DesignPushes and PullsStructure and Function: Human Body	□ Animals and Algorithms☑ Sunlight and Weather□ Living Things: Needs and Impacts
Algorithms and Programming	
Variables 1A-AP-09 Model the way programs store and manipulate data by information.	y using numbers or other symbols to represent
☐ Structure and Function: Exploring Design☐ Pushes and Pulls☐ Structure and Function: Human Body	 Animals and Algorithms Sunlight and Weather Living Things: Needs and Impacts

Computer Science Teachers Association K-12 Computer Science

Control	
1A-AP-10	
Develop programs with sequences and simple loops, to	express ideas or address a problem.
☐ Structure and Function: Exploring Design	Animals and Algorithms
☐ Pushes and Pulls	☐ Sunlight and Weather
☐ Structure and Function: Human Body	☐ Living Things: Needs and Impacts
Modularity	
1A-AP-11	
Decompose (break down) the steps needed to solve a	problem into a precise sequence of instructions.
☐ Structure and Function: Exploring Design	Animals and Algorithms
☐ Pushes and Pulls	☐ Sunlight and Weather
☐ Structure and Function: Human Body	☐ Living Things: Needs and Impacts
Program Development	
1A-AP-12	
Develop plans that describe a program's sequence of e	events, goals, and expected outcomes.
☐ Structure and Function: Exploring Design	Animals and Algorithms
☐ Pushes and Pulls	☐ Sunlight and Weather
☐ Structure and Function: Human Body	$\ \square$ Living Things: Needs and Impacts
Program Development	
1A-AP-14	
Debug (identify and fix) errors in an algorithm or progra	m that includes sequences and simple loops.
☐ Structure and Function: Exploring Design	Animals and Algorithms
Pushes and Pulls	☐ Sunlight and Weather
☐ Structure and Function: Human Body	\Box Living Things: Needs and Impacts
Program Development	
1A-AP-15	
Using correct terminology, describe steps taken and characteristic program development.	noices made during the iterative process of
☐ Structure and Function: Exploring Design	Animals and Algorithms
☐ Pushes and Pulls	☐ Sunlight and Weather
Structure and Function: Human Body	☐ Living Things: Needs and Impacts

Computer Science Teachers Association K-12 Computer Science

Impacts of Computing

Social Interactions

1A-IC-17

Work respectfully and responsibly with others online.

- ☑ Structure and Function: Exploring Design
- ✓ Pushes and Pulls
- ✓ Structure and Function: Human Body
- Animals and Algorithms
- ✓ Sunlight and Weather
- ✓ Living Things: Needs and Impacts

Safety Law & Ethics

1A-IC-18

Keep login information private, and log off of devices appropriately.

- ✓ Structure and Function: Exploring Design.
- ✓ Pushes and Pulls
- ☑ Structure and Function: Human Body
- Animals and Algorithms
- ✓ Sunlight and Weather
- ✓ Living Things: Needs and Impacts

Common Core State Standards English Language Arts - Kindergarten

Literature Standards		
Key Ideas and Details CCSS.ELA-LITERACY.RL.K.1 With prompting and support, ask and answer questions	about key details in a text.	
 Structure and Function: Exploring Design Pushes and Pulls Structure and Function: Human Body CCSS.ELA-LITERACY.RL.K.2 With prompting and support, retell familiar stories, include 	 □ Animals and Algorithms ☑ Sunlight and Weather □ Living Things: Needs and Impacts ding key details.	
 ✓ Structure and Function: Exploring Design ☐ Pushes and Pulls ✓ Structure and Function: Human Body 	□ Animals and Algorithms□ Sunlight and Weather□ Living Things: Needs and Impacts	
CCSS.ELA-LITERACY.RL.K.3 With prompting and support, identify characters, settings, and major events in a story.		
 Structure and Function: Exploring Design Pushes and Pulls Structure and Function: Human Body 	 Animals and Algorithms Sunlight and Weather Living Things: Needs and Impacts 	
CCSS.ELA-LITERACY.RL.K.10 Actively engage in group reading activities with purpose	and understanding.	
 □ Structure and Function: Exploring Design □ Pushes and Pulls ☑ Structure and Function: Human Body 	 □ Animals and Algorithms ☑ Sunlight and Weather □ Living Things: Needs and Impacts 	
Reading Standards for Informational Text		
Key Ideas and Details CCSS.ELA-LITERACY.RI.K.1 With prompting and support, ask and answer questions	about key details in a text.	
Structure and Function: Exploring DesignPushes and PullsStructure and Function: Human Body	 □ Animals and Algorithms ☑ Sunlight and Weather ☑ Living Things: Needs and Impacts 	

CCSS.ELA-LITERACY.RI.K.2 With prompting and support, identify the main topic and retell key details of a text. ☐ Animals and Algorithms Structure and Function: Exploring Design □ Pushes and Pulls Sunlight and Weather ☐ Structure and Function: Human Body ✓ Living Things: Needs and Impacts Range of Reading and Level of Text Complexity CCSS.ELA-LITERACY.RI.K.10 Actively engage in group reading activities with purpose and understanding. ☐ Animals and Algorithms Structure and Function: Exploring Design ☐ Pushes and Pulls Sunlight and Weather ☐ Structure and Function: Human Body ☐ Living Things: Needs and Impacts **Language Arts Writing Standards** Text Types and Purposes CCSS.ELA-LITERACY.W.K.2 Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic. ☐ Animals and Algorithms Structure and Function: Exploring Design Pushes and Pulls Sunlight and Weather ✓ Living Things: Needs and Impacts ☐ Structure and Function: Human Body CCSS.ELA-LITERACY.W.K.3 Use a combination of drawing, dictating, and writing to narrate a single event or several loosely linked events, tell about the events in the order in which they occurred, and provide a reaction to what happened. Animals and Algorithms ☐ Structure and Function: Exploring Design ☐ Pushes and Pulls ☐ Sunlight and Weather ☐ Structure and Function: Human Body ☐ Living Things: Needs and Impacts Production and Distribution of Writing CCSS.ELA-LITERACY.W.K.6 With guidance and support from adults, explore a variety of digital tools to produce and publish writing, including in collaboration with peers. Animals and Algorithms ☐ Structure and Function: Exploring Design ☐ Pushes and Pulls ☐ Sunlight and Weather

☐ Structure and Function: Human Body

Common Core State Standards English Language Arts - Kindergarten

☐ Living Things: Needs and Impacts

Common Core State Standards English Language Arts - Kindergarten Research to Build and Present Knowledge CCSS.ELA-LITERACY.W.K.7 Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them). ☐ Animals and Algorithms ☐ Structure and Function: Exploring Design Pushes and Pulls ☐ Sunlight and Weather ☐ Structure and Function: Human Body ✓ Living Things: Needs and Impacts **Language Arts Speaking and Listening Standards** Comprehension and Collaboration CCSS.ELA-LITERACY.SL.K.1 Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups. Animals and Algorithms Structure and Function: Exploring Design ✓ Pushes and Pulls Sunlight and Weather ✓ Living Things: Needs and Impacts Structure and Function: Human Body CCSS.ELA-LITERACY.SL.K.1.a Follow agreed-upon rules for discussions (e.g., listening to others and taking turns speaking about the topics and texts under discussion). Animals and Algorithms ✓ Structure and Function: Exploring Design Pushes and Pulls ☐ Sunlight and Weather ☐ Living Things: Needs and Impacts Structure and Function: Human Body CCSS.ELA-LITERACY.SL.K.1.b Continue a conversation through multiple exchanges. Animals and Algorithms Structure and Function: Exploring Design Pushes and Pulls ☐ Sunlight and Weather ✓ Structure and Function: Human Body ☐ Living Things: Needs and Impacts

CCSS.ELA-LITERACY.SL.K.2

Confirm understanding of a text read aloud or information presented orally or through other media by asking and answering questions about key details and requesting clarification if something is not understood.

□ Structure and Function: Exploring Design
 □ Animals and Algorithms
 ☑ Sunlight and Weather
 □ Structure and Function: Human Body
 □ Living Things: Needs and Impacts

Common Core State Standards English Language Arts - Kindergarten

CCSS.ELA-LITERACY.SL.K.3 Ask and answer questions in order to seek help, get infounderstood.	ormation, or clarify something that is not
□ Structure and Function: Exploring Design✓ Pushes and Pulls□ Structure and Function: Human Body	□ Animals and Algorithms☑ Sunlight and Weather□ Living Things: Needs and Impacts
Presentation of Knowledge and Ideas CCSS.ELA-LITERACY.SL.K.4 Describe familiar people, places, things, and events and detail.	d, with prompting and support, provide additional
□ Structure and Function: Exploring Design☑ Pushes and Pulls□ Structure and Function: Human Body	□ Animals and Algorithms□ Sunlight and Weather☑ Living Things: Needs and Impacts
CCSS.ELA-LITERACY.SL.K.5 Add drawings or other visual displays to descriptions as	desired to provide additional detail.
☐ Structure and Function: Exploring Design ☐ Pushes and Pulls ☐ Structure and Function: Human Body CCSS.ELA-LITERACY.SL.K.6 Speak audibly and express thoughts, feelings, and idea.	 Animals and Algorithms Sunlight and Weather Living Things: Needs and Impacts s clearly.
 □ Structure and Function: Exploring Design □ Pushes and Pulls □ Structure and Function: Human Body 	 □ Animals and Algorithms ☑ Sunlight and Weather □ Living Things: Needs and Impacts
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Common Core State Standards Mathematics - Kindergarten

Counting and Cardinality	
Know number names and the count sequence. CCSS.MATH.CONTENT.K.CC.A.1 Count to 100 by ones and by tens.	
☐ Structure and Function: Exploring Design	✓ Animals and Algorithms
Pushes and Pulls	☐ Sunlight and Weather
□ Structure and Function: Human Body	Living Things: Needs and Impacts
CCSS.MATH.CONTENT.K.CC.A.3 Write numbers from 0 to 20. Represent a number of objects). Tepresenting a count of no objects).	ects with a written numeral 0-20 (with 0
Structure and Function: Exploring Design	☐ Animals and Algorithms
✓ Pushes and Pulls	✓ Sunlight and Weather
Structure and Function: Human Body	Living Things: Needs and Impacts
Count to tell the number of objects. CCSS.MATH.CONTENT.K.CC.B.4 Understand the relationship between numbers and quar	ntities; connect counting to cardinality.
Structure and Function: Exploring Design	Animals and Algorithms
☐ Pushes and Pulls	☐ Sunlight and Weather
Structure and Function: Human Body	☐ Living Things: Needs and Impacts
CCSS.MATH.CONTENT.K.CC.B.5 Count to answer "how many?" questions about as many array, or a circle, or as many as 10 things in a scattered but that many objects.	
Structure and Function: Exploring Design	Animals and Algorithms
☐ Pushes and Pulls	☐ Sunlight and Weather
Structure and Function: Human Body	Living Things: Needs and Impacts
Compare numbers.	
CCSS.MATH.CONTENT.K.CC.C.6 dentify whether the number of objects in one group is gobjects in another group, e.g., by using matching and co	,
☐ Structure and Function: Exploring Design	☐ Animals and Algorithms
☐ Pushes and Pulls	☐ Sunlight and Weather
✓ Structure and Function: Human Body	☐ Living Things: Needs and Impacts

Common Core State Standards Mathematics - Kindergarten

Measurement and Data	
Describe and compare measurable attributes. CCSS.MATH.CONTENT.K.MD.A.2 Directly compare two objects with a measurable attribute of "/"less of " the attribute, and describe the difference.	in common, to see which object has "more
 ✓ Structure and Function: Exploring Design ✓ Pushes and Pulls □ Structure and Function: Human Body CCSS.MATH.CONTENT.K.MD.B.3 Classify objects into given categories; count the numbers categories by count. 	 □ Animals and Algorithms ☑ Sunlight and Weather □ Living Things: Needs and Impacts s of objects in each category and sort the
□ Structure and Function: Exploring Design✓ Pushes and Pulls□ Structure and Function: Human Body	□ Animals and Algorithms□ Sunlight and Weather☑ Living Things: Needs and Impacts
Geometry Identify and describe shapes (squares, circles, triangles, and spheres). CCSS.MATH.CONTENT.K.G.A.1 Describe objects in the environment using names of shap objects using terms such as above, below, beside, in fror	pes, and describe the relative positions of these
☐ Structure and Function: Exploring Design ☐ Pushes and Pulls ☐ Structure and Function: Human Body CCSS.MATH.CONTENT.K.G.A.2	 Animals and Algorithms Sunlight and Weather Living Things: Needs and Impacts
Correctly name shapes regardless of their orientations or Structure and Function: Exploring Design Design Structure and Function: Human Body	overall size. ☐ Animals and Algorithms ☐ Sunlight and Weather ☐ Living Things: Needs and Impacts
Mathematical Practices	
CCSS.MATH.PRACTICE.MP1 Make sense of problems and persevere in solving them.	
 Structure and Function: Exploring Design Pushes and Pulls Structure and Function: Human Body 	 Animals and Algorithms Sunlight and Weather Living Things: Needs and Impacts

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Common Core State Standards Mathematics - Kindergarten CCSS.MATH.PRACTICE.MP2 Reason abstractly and quantitatively. Animals and Algorithms Structure and Function: Exploring Design ☐ Pushes and Pulls ✓ Sunlight and Weather ✓ Structure and Function: Human Body ☐ Living Things: Needs and Impacts CCSS.MATH.PRACTICE.MP3 Construct viable arguments and critique the reasoning of others. Animals and Algorithms Structure and Function: Exploring Design Pushes and Pulls ✓ Sunlight and Weather Structure and Function: Human Body ✓ Living Things: Needs and Impacts CCSS.MATH.PRACTICE.MP4 Model with mathematics.

Structure and Function: Exploring Design

☐ Pushes and Pulls

Structure and Function: Human Body

CCSS.MATH.PRACTICE.MP5

Use appropriate tools strategically.

Structure and Function: Exploring Design

Pushes and Pulls

✓ Structure and Function: Human Body

☐ Sunlight and Weather

☐ Animals and Algorithms

☐ Living Things: Needs and Impacts

☐ Animals and Algorithms

☐ Sunlight and Weather

☐ Living Things: Needs and Impacts

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