	actual and may carried	an arab
К	1st	2nd
Weeks 6,-8-Sept.	Weeks 4-6-Aug/Sept	Weeks 2-4-Aug
Healthy Habits	Structure and Function: Exploring Design	Properties of Matter
healthy habits and learn how food	and how engineers influence their	different kinds of materials by their
affects growth, gross motor skills	lives. They explore the elements of	observable properties, including color
(muscles), the heart, teeth, and eyes.	structure and function by identifying	and texture. They learn about states
They discover career connections as	products around them designed by	of matter and properties of materials
they learn about wellness checkups at	engineers and asking questions	including insulators and conductors. In
the pediatrician, dentist, and	engineers might ask. They are	the design problem, Angelina, Mylo,
derms are spread and explore healthy	through a story in which Angelina	nons cold during a soccer dame –
habits to prevent the spread of germs.	wants to design a paintbrush.	without a cooler. Students apply their
Using the knowledge and skills	Students apply their knowledge from	knowledge and skills to determine the
they've gained from the activities and	the module to design their own	best material to solve this design
project, students create a multimedia	paintbrushes.	problem and then evaluate how their
product to share what they've learned	Computer Science	designs might be improved.
With others.		P25
LKTA Weeks 12 15 Nev	Weeks 11 12 Oct/Nev	Weeks 0, 11 Oct
living and Non Living Things	Animals and Algorithms	Animal Adaptations
Students explore characteristics of	Students explore the nature of	Students explore animal adaptations
living and popliving things. By	computers and the ways humans	for protection camouflage food
examining habitats, students develop	control and use technology. Starting	obtainment, and locomotion. Students
an understanding of what living things	with an unplugged activity, students	learn what it means for an organism to
need in order to survive. They use the	learn about the sequential nature of	be adapted to its environment and
design process to sketch, build, and	computer programs. Students are	how different adaptations can be
test an animal's shelter, then reflect	inspired by a story in which Angelina,	categorized. Students are introduced
on their design.	Mylo, and Suzi make videos to teach	to the design challenge when Suzi
LKTA	preschoolers about animals in their	announces she is visiting the Sahara
	nabilals. Then, sludents work in small	and needs to get prepared for her trip.

Project Lead the Way Curriculum Map

	groups to design and program a simple digital animation about an animal in its habitat. Computer Science	Students are challenged to design the ideal shoe for travelers to wear in extreme environments, applying what they have learned and looking to plant and animal adaptations to guide their designs. L24
Weeks 20-22- Jan	Weeks 18-10-Dec/Jan	Weeks 16-18-Nov/Dec
Matter: Floating and Sinking	Animated Storytelling	Living Things: Needs and Impacts
Students develop an understanding of matter by examining solids and liquids through hands-on activities. They explore floating and sinking as they predict and observe what effect liquids have on different materials. Using the design process, students rely on their knowledge and skills of matter to sketch, build, test, and reflect on a design they have created that will float on water and keep items within the design dry. PK5A	Students explore the sequential nature of computer programs through hands-on activities, both with and without a computer. They examine key aspects of storytelling and devise how to transition a narrative from page to screen. Students discover the design problem through a story about Angelina, Mylo, and Suzi, who wish they could find a way to create a story with characters who move and interact with each other. Combining fundamental principles of computer science with story-building skills, students develop animations that showcase characters, settings, actions, and events from short stories of their own creation. Computer Science	Students investigate the needs of living things. During an outdoor walk, students look for plants and animals and consider how their needs are met in their natural environment. Then, they explore how living things impact the natural environment. They participate in a simulation to observe how an animal impacts the natural environment to meet its needs. Students then explore human needs and wants and how humans impact the natural environment, both positively and negatively. In an exercise to reduce waste, students use the design process to build a new game or toy out of reusable materials. L23A
Weeks 27-29-March	Weeks 25-27-Feb/March	Weeks 23-25-Nov/Dec
Sunlight and Weather	Light and Sound	Grids and Games
Students learn about the Sun's	Students investigate the properties of	Students investigate numerical
warming effect on Earth. They	light and sound, including vibration	relationships while learning about the

different Earth materials, which leads to how the Sun affects our weather. Students learn how to describe the weather to make observations and collect data. They use this data to describe patterns over time, which helps predict the weather. They view a local weather forecast to understand how the weather impacts their daily lives. Students practice how to dress for the day by dressing Angelina, Mylo, or Suzi based on a forecast. Then, they use the design process to design a structure that can reduce the Sun's warming effect. EK8	from sound waves and the effect of different materials on the path of a beam of light. After students develop an understanding of light and sound, they are challenged to solve a design problem Mylo, Suzi, and Angelina face. In the story, the characters are lost and must use only the materials in their backpack to communicate over a distance by using light and/or sound. Students use the design process to sketch, build, test, and reflect on a device that solves this design problem. P16	sequence and structure required in computer programs. Starting with computer-free activities and moving to tablet-based challenges, students apply addition and subtraction strategies to make characters move on a grid. Angelina presents the design problem when she expresses her desire to design a game she can play on her tablet. Using skills and knowledge gained from these activities, students work together in groups to design and develop a game in which a player interacts with objects on a tablet screen. Computer Science
Weeks 24-26-May	Weeks 32-34-April/May	Weeks 30-32-April
Spatial Sense and Coding	Materials Science: Form and Function	Pushes and Pulls
Spatial Sense and Coding Students develop spatial sense as they engage in activities that explore directional movement – over, under, through, and around. They begin to develop coding skills as they plan a path, create wearable code, and code an interactive robotic device. Using the engineering design process, atudente create code that will load	Materials Science: Form and Function Students research the variety of ways animals disperse seeds and pollinate plants. They expand their understanding of properties of matter as they consider the form and function involved in seed dispersal and pollination. Students are introduced to the design problem when Angelina,	Pushes and Pulls Students investigate pushes and pulls on the motion of an object and develop knowledge and skills related to forces of differing strengths and directions. Their explorations include pushes and pulls found in their everyday world, such as pushing a friend on a swing or pulling a wagon.

L143
