

MarcoPolo Learning Alignment with TEKS Science

Grade 1

Science, Grade 1

Our Approach: MarcoPolo Learning engages children in the inquiry process through scientific discovery using real-world footage and hands-on activities. Science topics are introduced to foster a child's curiosity, critical thinking skills, and creativity, encouraging them to observe, wonder, question, test, and design like a scientist.

Skills: Scientific and Engineering Practices

S.1.1 Scientific and Engineering Practices

The student asks questions, identifies problems, and plans and safely conducts classroom, laboratory, and field investigations to answer questions, explain phenomena, or design solutions using appropriate tools and models. The student is expected to:

MarcoPolo Learning models scientific and engineering practices through **digital content, inquiry-led discussions**, and **hands-on activities**. The Polo Characters ask questions and investigate real-world phenomena such as the movement of glaciers, the temperature-regulated robin's nest, or a solar eclipse. Scientific tools are explored as children learn about various STEM careers, such as a meteorologist, various medical professionals, or an inventor.

S.1.1.A. Ask questions and define problems based on observations or information from text, phenomena, models, or investigations.

Asking Questions:

American Robin

Baby Sea Turtle

Beaver

Centipede

Clouds

Farth

Elk

Firefly

Glacier

Grizzly Bear

Gray Wolf

Groundhog

Hurricane

Insect Bodies

Insect Life Cycle

Ladybug

Leaf-cutter ants

TEKS Science, Grade 1	MarcoPolo Learning Alignment	
S.1.1.A continued	Lightning	
	Lunar Eclipse	
	Migration	
	Meteorologist	
	Moon Tides	
	Moose	
	Ocean Floor	
	Owl	
	Pine Forest	
	Phytoplankton	
	Pollination	
	Porcupine	
	Raccoon	
	Rainbow	
	Rain	
	Skunk	
	Snow	
	Solar Eclipse	
	Stick Insect	
	Tears	
	The Heart	
	The Moon	
	The Water Cycle	
	Thunder	
	Tornado	
	Wind	
	White-tailed Deer	
	Woodpecker	

S.1.1.A., continued...

TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.1.A continued	Conducting Investigations: Create Curiosity Dinosaur Fossils Hiccups Hybrid Fruits Inside a Piano Popsicle Plants on Your Plate Rainbow Taste The Eye The Heart Trampoline Unusual Inventions Woodpecker
	Some muscles are small

Page 3 S.1.1.A., continued...

TEKS Science, Grade 1	MarcoPolo Learning Alignment
5.1.1.A continued	Using Tools and Models:
	Broken Bones
	Bulldozer
	Elevator
	Entomologist
	Excavator
	Flush Toilets
	Hearing Aid
	Helicopter
	Hovercraft
	Inspired by Nature
	Meteorologist
	Mobility Inventions
	Panama Canal
	Rocket Ship
	Submersible
	Super Fiber
	Telephone
	The London Eye
	Trampoline
	Veterinarian
	Weather Tools
	X-Ray

TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.1.B. Use scientific practices to plan and	American Robin
conduct simple descriptive investigations and	Beaver
use engineering practices to design solutions to	Chipmunk
problems.	Create
	Curiosity
	Elevator
	Earthworm
	Entomologist
	Firefly
	Fingerprints
	Flush Toilets
	Flexible Thinking
	Frustration
	Hail
	Hearing Aid
	How Sound Travels
	Hurricane
	Insect Eggs
	Insect Flight
	Insect Food Chain
	Insect Life Cycle
	Insects
	Inside a Piano
	Inspired by Nature
	Migration
	Maple Tree
	Meteorologist
	Music Box
	Owl
	Panama Canal
	Pillbug
	Pine Forest
	Pollination
	1 Offiniación

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TEKS Science, Grade 1	MarcoPolo Learning Alignment
1.1.B. continued	Rainbow Rain Smell Solar Eclipse Super Fiber Taste Termite Mounds The Brain The Ear The Eye The Leaning Tower of Pisa The Water Cycle Tornado Inventions Wind Weaver X-ray
	MarcoPolo Per Education Activity option 1 EXPLORING WEATHER TOOLS: RAIN GAUGES In this activity, children will create their own rain gauges. Then, children will decide where to put their rain gauges. Afterward, children swill decide where to put their rain gauges. Afterward, children should check the water level in their ain gauges (garticularly if children put their rain gauges (garticularly if children put their rain gauges (garticularly if children put their rain gauges in different spots). Materials: - Empty two-liter plastic bottles - Scissors - Tape - Ruler - Permanent marker Directions: 1. Use scissors to cut the top of the bottle just below where the bottle begins to narrow. 2. Turn the top of the bottle upside down to make a funnel. Line up the cut edges of the bottle and tape them together, so that the top of the bottle (row inverted) is firmly in place. 3. Note children might need to revisit their designs if their bottle keeps falling over. Encourage engineering new designs.

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MarcoPolo Learning Alignment

S.1.1.C. Identify, describe, and demonstrate safe practices during classroom and field investigations as outlined in Texas Education Agency-approved safety standards.

The Polo Characters demonstrate safe practices while exploring the world, showing children how to **engage** with their **surroundings responsibly**. Whether it's wearing a helmet and seatbelt in a Formula 1 Car or using solar glasses during an eclipse, safety precautions are highlighted throughout their adventures. Children are also introduced to scientific tools like hand lenses and binoculars, encouraging **respectful observation** of **nature**.

Visual models, such as the insect life cycle or food chain, and the process of making foods like popcorn, help children grasp complex concepts and understand the world around them.





TEKS Science, Grade 1

S.1.1.D. Use tools, including hand lenses, goggles, trays, cups, bowls, sieves or sifters, notebooks, terrariums, aquariums, samples (rocks, sand, soil, loam, gravel, clay, seeds, and plants), windsock, demonstration thermometer, rain gauge, straws, ribbons, non-standard measuring items, blocks or cubes, tuning fork, various flashlights, small paper cups, items that roll, noise makers, hot plate, opaque objects, transparent objects, foil pie pans, foil muffin cups, wax paper, Sun-Moon-Earth model, and plant life cycle model to observe, measure, test, and compare.

MarcoPolo Learning Alignment

The MarcoPolo Learning Educator Guides offer valuable support for hands-on learning, encouraging **observation** and **outdoor exploration**. Through engaging activities like observing earthworms in their natural habitat or sorting and classifying local leaves, children are guided to explore the world around them. These activities not only deepen their understanding of nature but also promote active learning and discovery, helping children connect with their surroundings in meaningful ways.



MarcoPolo

Leaf-Cutter Ants

Activity option 1

CLASSROOM COMPOST BIN: OBSERVING DECOMPOSITION & FUNGUS In this activity, children will observe how plants decompose and provide sustenance for living things like earthworms and fungus.

Before this activity, the teacher prepares the following materials:

- A large glass aquarium with a wire top (to provide air circulation to the compost).
- An open space where children can observe the happenings inside the aquarium. The compost should remain at room temperature, but not be in direct sunlight.
- Prepare the layers of compost inside the aquarium. Alternate layers of the materials as follows: I inch (2.5 cm) of soil, 2 (5 cm) inches of organic waste (vegetables, fruits, breads, leaves, grasses), a sprinkle of organic fertilizer and water
- Add earthworms to the compost bin.
- Create a "fungus corner" for children to observe fungus growing; put one larger piece of food waste underneath the first layer of soil and mist this area with water once every few days to keep it moist. This area should not be disturbed to allow the fungus better conditions to grow.

Leaf-culter ants use leaves to create an ideal environment for fungus to grow. Fungus grows in damp, nutrient-rich places. Nutrient-rich soils are the perfect place for humans to grow crops to eat tool in this activity, children will observe how plant parts decompose over time and provide sustenance to other living things, in this case, earthworms. Support children to observe the compost bin, earthworms, and the growing fungus over time. Children can record their observations by making observational drawings, taking photographs, or recording videos.

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TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.1.E Collect observations and measurements as evidence.	Compost Earth Earthworm Insect Food Chain Insect Life Cycle Lunar Eclipse Meteorologist Pine Forest Plants on Your Plate Pollination Rain Solar Eclipse The Moon The Water Cycle Weather Tools Wind

TEKS Science, Grade 1 **MarcoPolo Learning Alignment** S.1.1.F. Record and organize data using pictures, The Educator Guides that accompany each Video Lesson offer hands-on activities to reinforce learning. Graphing activities encourage educators and children to numbers, words, symbols, and simple graphs. collect data, make comparisons, and organize information. Whether graphing the plant parts in a child's lunch or exploring outer space to graph planet features, these activities help children visualize and interpret data using pictures, numbers, words, symbols, and simple graphs. The following **Video Lessons** include a graphing activity in the **Educator Guide**: **Baby Pets** Bread From Around the World Jupiter Ostrich Plants on Your Plate Taste MarcoPolo MarcoPolo Ostrich Activity Activity THE JUPITER AWARDS RECORD-BREAKING BIRD AWARDS The ostrich is certainly a record-breaking bird! Using the trophy coloring page Jupiter wins a lot of awards! It is the biggest planet in our solar system, has the biggest storm, and the biggest moon. In this activity, children will (template provided), children will give an award to the ostrich. Children have the draw a picture that depicts one of these features. Post pictures and/or provide option to create a "biggest bird" award, "biggest egg" award, or "fastest twononfiction books that have pictures of the planet Jupiter, the storm, and the legged animal" award. Once children choose which award they would like to moon Ganymede. Children should look closely at the pictures, as the teacher give to an ostrich (if they could), children draw a picture on the trophy (template guides them to describe what they see. Ask children which award they will be provided) to depict their chosen award. Then, the class holds an Ostrich Awards Ceremony, During the award ceremony, children share their pictures and explain presenting to Jupiter: the biggest planet award, the award for the biggest storm. or the biggest moon award. Support children to choose accurate colors while how their picture shows the chosen award. After everyone has shared, children count how many of each award there are. drawing. The teacher can choose to label the child's drawing or support the child to label it themselves. Maths connection Create a graph to depict the amount of each award (suggested chart below). After children have shared their drawings, the teacher can create a graph with three categories, one for each type of award. Then, children can count how many of each award was created, and which category has the most Fastest Two-legged Biggest Bird award **Biggest Egg award** Animal award and least amount (see example of graph below). ## || ||||##1

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S.1.1.G. Develop and use models to represent phenomena, objects, and processes or design a prototype for a solution to a problem.	Beaver Curiosity
	Curiosity
prototype for a solution to a problem.	•
	Flexible Thinking
	Flush Toilets
	Frustration
	Inspired by Nature
	Insect Food Chain
	Insect Life Cycle
	Inventions
	Mobility Inventions
	Panama Canal
	The Water Cycle
	Weaver

TEKS Science, Grade 1 MarcoPolo Learning Alignment S.1.2. Scientific and engineering practices. MarcoPolo Learning Video Lessons and Educator Guides are designed to support The student analyzes and interprets data to derive children in developing critical thinking skills in both scientific and engineering meaning, identify features and patterns, and practices. The discussion guides included with each Video Lesson encourage discover relationships or correlations to develop inquiry-led conversations, allowing children to engage with real-world concepts evidence-based arguments or evaluate designs. using developmentally appropriate practices. Through guided discussions, The student is expected to: children identify patterns, discover relationships, and build evidence-based arguments, enhancing their ability to draw meaningful conclusions. **MarcoPolo** Basilisk Lizard **Activity** FLOAT OR SINK? Set up a float or sink experiment at the water table. Give children a variety of materials of varying weights and textures, and allow them to test them in the water, noting if they float or sink. Sort the objects that sank and floated into two groups What do you notice about each group? MarcoPolo . Which objects floated? Why do you think they stayed on top of the · Which objects sank? Why? Discussion guide . Did any object float for a while and then sink? Why do you think that happened? 1 Introduction · What is special about the basilisk lizard, that allows it to stay on top Have a discussion with children about human homes and animal homes. of the water? Show children a photograph of a nest built by a familiar bird. If possible show an actual bird's nest. · Who do you think built your home? . What do you think birds use to build nests? . Beavers live in water; what do you think they use to build their homes? 2 Video discussion Watch the video lesson with the children. Pause to discuss the . What do you notice about the beaver dams in the water? How are our human teeth different from heaver's teeth? . How does building a lodge underwater protect beavers from predators? 3 Culminating discussion · How do beavers get the sticks and mud they need to build their dams and lodges? . How does building a dam help the beavers build their lodge?

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TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.2.A. Identify basic advantages and limitations	Basilisk Lizard
of models such as their size, properties, and	Bones
materials.	Coral Reef
	Constellations
	Earth
	Hurricane
	Layers of the Rainforest
	Lunar Eclipse
	Lungs
	Moon Tides
	Rocket Ship
	Seasons
	Smell
	Solar Eclipse
	Taste
	Teeth
	The Brain
	The Digestive System
	The Ear
	The Eye
	The Heart
	The Immune System
	The Milky Way
	The Moon
	The Nervous System
	The Water Cycle
	Weather Tools

TEKS Science, Grade 1	MarcoPolo Learning Alignment
5.1.2.B. Analyze data by identifying significant eatures and patterns.	Baby Pets Bread From Around the World Jupiter Ostrich Plants on Your Plate Taste Weather Tools
3.1.2.C. Use mathematical concepts to compare wo objects with common attributes.	Black Panther Breeds of Cats Clouds Dog Breeds Fish Insects Musical Instruments Pillbug Planets With Rings Types of Food

TEKS Science, Grade 1	MarcoPolo Learning Alignment
5.1.2.D. Evaluate a design or object using criteria to	Abacus
determine if it works as intended.	Braille
	Bulldozer
	Electric Car
	Excavator
	Food Storage
	Formula 1 Car
	Hearing Aid
	Helicopter
	Hovercraft
	Hot Air Balloon
	Inspired by Nature
	Inventions
	Inside a Piano
	Maglev Train
	Mobility Inventions
	Music Box
	Panama Canal
	Plastic
	Rocket Ship
	Snowboarding
	Submersible
	Super Fiber
	Telephone
	Trampoline
	Tuk-Tuk
	The International Space Station
	The London Eye
	Weightlifting
	Weather Tools
	X-ray

TEKS Science, Grade 1

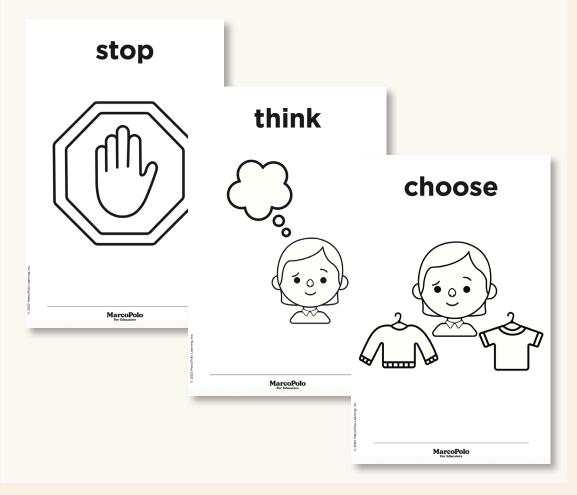
MarcoPolo Learning Alignment

S.1.3. Scientific and engineering practices.

The student develops evidence-based explanations and communicates findings, conclusions, and proposed solutions. The student is expected to:

MarcoPolo Learning promotes meaningful teacher-child interactions through high-quality Video Lessons, discussions, hands-on activities, and visual supports.

Each Video Lesson is paired with an Educator Guide that includes **open-ended questions**, encouraging children to discuss their observations and share their ideas, fostering **meaningful classroom discourse**. Activity suggestions include using manipulatives and common classroom materials to express ideas and understanding. **Printables** and **Photocards** provide visual aid to support **vocabulary building, meaningful conversations**, and **concept development**.



TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.3.A. Develop explanations and propose solutions supported by data and models.	Baby Pets Bread From Around the World Chocolate Factory Insect Food Chain Insect Life Cycle Jupiter Ostrich Plants on Your Plate Popcorn Taste Weather Tools
S.1.3.B. Communicate explanations and solutions individually and collaboratively in a variety of settings and formats.	Flexible Thinking Inventions On My Own Takahē Using Your Words MarcoPolo The Machine Using Your Words Flexible Thinking Discussion guide 1 Introduction The teacher trist to write something on chart paper using a dried up marker. The marker donen't work and the teacher models feeling frustated. After the marker donen't work and the teacher models feeling frustated. After the marker, the seacher writes the word "flexible" on the paper. Questions: What should do? This marker is all dried up! How can I solve this problem? I really wanted to use this color to write. I had to be flexible and range the color, because this color was dry. What do you think the word "flexible" mans? 2 Video discussion Watch the video lesses with the children. Pause to discuss the following questions: Why does but y think that the dodgeball game is ruined? Liy thought about a few atternatives before coming up with the new plan. How could that be helpful wiren you need to change a plan? 3 Culminating discussion Can you think of a time when you had to use flexible thinking and change your plan? What happened? MarconPolo MarconPolo MarconPolo MarconPolo Plexible Thinking Flexible Thinking Plexible Thinking Discussion Can you think of a time when you had to use flexible thinking and change your plan? What happened?

TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.3.C. Listen actively to others' explanations to identify important evidence and engage respectfully in scientific discussion.	Curiosity Flexible Thinking Using Your Words Electric Car Takahē
S.1.4. Scientific and engineering practices. The student knows the contributions of scientists and recognizes the importance of scientific research and innovation on society. The student is expected to:	MarcoPolo Learning video content not only encourages children to solve problems but also models strategies used by scientists, helping children to think and approach challenges like real-world scientists. Through engaging lessons, children are introduced to the impact of STEM careers such as entomology, paleontology, medicine, space and weather science, and nutrition, recognizing the importance of scientific research and innovation. Each Educator Guide provides hands-on, inquiry-based activities that promote higher-order thinking and communication skills, fostering a deeper understanding of how scientific contributions shape the world. These adaptable activities support various skill levels, ensuring an engaging learning experience for all children.

TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.4.A. Explain how science or an innovation can help others.	Braille Broken Bones Curiosity Empathy Elevator Entomologist Flexible Thinking Flush Toilets Food Storage Dried Fruit Hearing Aid Helicopter Hovercraft Hurricane Inspired by Nature Inventions Kimchi Meteorologist Mobility Inventions Panama Canal Super Fiber Telephone
	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Page 19 S.1.4.A., continued...

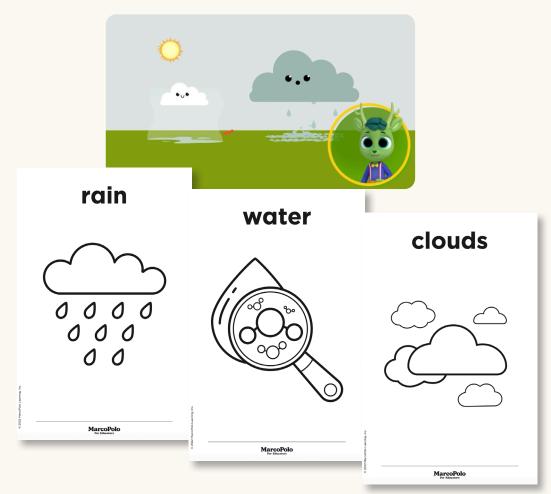
TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.4.A.continued	The International Space Station Weather Tools Wearing Glasses X-ray
S.1.4.B. Identify scientists and engineers such as Isaac Newton, Mae Jemison, and Ynes Mexia and explore what different scientists and engineers do.	Braille Elevator Entomologist Flush Toilets Hearing Aid Inspired by Nature Inventions Meteorologist Mobility Inventions Panama Canal Rocket Ship Super Fiber Telephone The International Space Station Weather Tools Wearing Glasses X-ray

Skills: Recurring Themes and Concepts

S.1.5. Recurring themes and concepts

The student uses recurring themes and concepts to make connections across disciplines. The student is expected to:

Each Video Lesson incorporates **cross-curricular connections** using real-world examples. For instance, the MarcoPolo Learning Video Lesson on "The Water Cycle" introduces content vocabulary and concepts from both math and science—such as spatial awareness, observation, sequencing, and Earth science—reinforcing concepts across multiple disciplines.



TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.5.A. Identify and use patterns to describe phenomena or design solutions.	Blue Morpho Butterfly Harp Seal Ladybug Maple Tree Moon Tides Seasons
S.1.5.B. Investigate and predict cause-and-effect relationships in science.	Allergies Earthworm Glacier Lightning Moon Tides Pine Forest Pollination Popsicle Rainbow Seasons Tapir The Dead Sea Thunder Tornado Wind Wombat

TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.5.C. Describe the properties of objects in terms of relative size (scale) and relative quantity.	Activity option 1 HOW MANY CHILDREN DOES IT TAKE TO MAKE A BLUE WHALE? This activity is best conducted in a large, long space at least 30 meters long to accommodate the size of the whelm model. The blue whale can be as long as three school buses, which is about 25 meters long it can be hard to imagine just how big a blue whale can be without seeing one in person. In this activity, children will use their bodies to create a human model of a blue whale. Instruction: Revisit a screenshot of what a blue whale locked like in the video. Then, discuss how they think they could measure the blue whale. Inform the children that they can be measure the blue whale. Inform the children that they can be measure the blue whale. Show the children how your wingspan is relatively equal to your height. Explain how they will use their wingspans to determine how long a blue whale can be. Marcopolo Marcopolo
S.1.5.D. Examine the parts of a whole to define or model a system.	Bones Coral Reef Earth Insect Bodies Insect Eggs Insect Food Chain Insect Life Cycle Inside a Piano Larvae Layers of the Rainforest Lungs Melody Muscles

TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.5.D. continued	Notes Up and Down
	Pine Forest
	Rock Band
	The Brain
	The Digestive System
	The Heart
	The Immune System
	The International Space Station
	The Milky Way
	The Nervous System
	The Water Cycle
	Types of Food
S.1.5.E. Identify forms of energy and properties of	Aurora Borealis
matter.	Black Hole
	Electric Car
	Firefly
	Glacier
	Hail
	Helicopter
	Humidity
	Hot Air Balloon
	Hovercraft
	Layers of the Rainforest
	Lightning
	Lunar Eclipse
	Maglev Train
	Music: Get Out in the Sun
	Popsicle
	Rain
	Rainbow

TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.5.E. continued	Snow Snowboarding Solar Eclipse Submersible Surfing The Moon Theremin Thunder
S.1.5.F. Describe the relationship between the structure and function of objects, organisms, and systems.	Bones Coral Reef Earth Insect Bodies Insect Eggs Insect Food Chain Insect Life Cycle Inside a Piano Larvae Layers of the Rainforest Lungs Melody Muscles Notes Up and Down

TEKS Science, Grade 1	MarcoPolo Learning Alignment
1.5.F. continued	Pine Forest
	Rock Band
	The Brain
	The Digestive System
	The Heart
	The Immune System
	The International Space Station
	The Milky Way
	The Nervous System
	The Water Cycle
	Types of Food

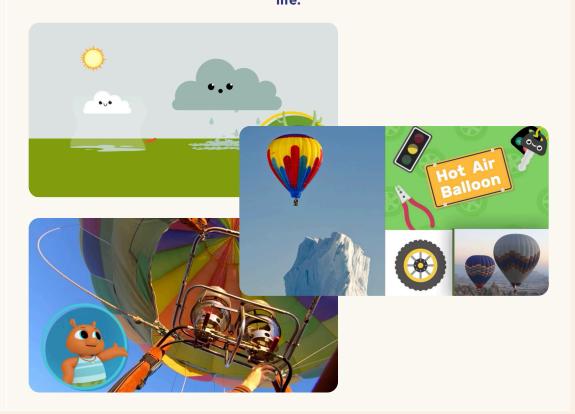
TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.5.G. Describe how factors or conditions can cause objects, organisms, and systems to either change or stay the same.	Aurora Borealis Baby Foods Beluga Bengal Tiger Blue Morpho Butterfly Bruises Cane Toad Clouds Compost Cuts Dried Fruit Elevator Electric Car Flexible Thinking Flush Toilets Food Storage Glacier Harp Seal Inventions Lunar Eclipse Moon Tides Parrotfish Pine Forest Plastic Practicing Rain Seasons Solar Eclipse Takahē Telephone Teeth The Water Cycle Undercover Insects
	Wind X-ray

Skills: Matter and its Properties

S.1.6. Matter and its properties

The student knows that objects have physical properties that determine how they are described and classified. The student is expected to:

The Video Lessons and accompanying Educator Guide activities support student learning by demonstrating how to classify objects based on different variables— for example, sorting animals into groups such as dog breeds, or identifying types of clouds in the sky within meaningful contexts. Additional videos address concepts such as heating and cooling methods that can change the properties of materials, illustrated through engaging examples like the hot air balloon. Each video is carefully curated, combining real-world footage with computergenerated animation to make abstract concepts accessible and engaging. The hands-on activities encourage students to compare and contrast, as well as conduct simple experiments, reinforcing key ideas and bringing the concepts to life.



TEKS Science, Grade 1	MarcoPolo Learning Alignment
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S.1.6.A. Classify objects by observable physical	American Robin
properties, including, shape, color, and texture,	Arctic Hare
and attributes such as larger and smaller and	Black Panther
heavier and lighter.	Braille
	Breeds of Cats
	Camouflage
	Dart Frog
	Dog Breeds
	Extraordinary Sounds
	Fish
	Food
	Freckles
	Hair Color
	Insect Bodies
	Insect Eggs
	Insect Warnings
	Inspired by Nature
	Jellyfish
	Musical Instruments
	Parrotfish
	Planets With Rings
	Platypus
	Red Octopus
	Squirrel
	Super Fiber
	Taste
	Toucan
	Tuatara
	Types of Food
	Unusual Inventions
	What is Music?
	Shape Circus Series

TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.6.B Explain and predict changes in materials	Blizzard
caused by heating and cooling.	Fever
	Food Storage
	Glacier
	Hail
	Hot Air Balloon
	Humidity
	Popcorn
	Sweating
	Popsicle
	Snow
	The Water Cycle
	Willow's Snowflake Globe
S.1.6.C Demonstrate and explain that a whole	Abacus
object is a system made of organized parts such	Create
as a toy that can be taken apart and put back	Panama Canal
together.	The London Eye
	Shape Circus Series
	4

TEKS Science, Grade 1	MarcoPolo Learning Alignment	
Skills: Force, Motion, and Energy		
S.1.7 Force, motion, and energy The student knows that forces cause changes in motion and position in everyday life. The student is expected to:	Video lessons introduce students to force, motion, and energy through clear , developmentally-appropriate examples . Concepts such as buoyancy in a hovercraft and the various water levels in a submersible help children observe and describe how energy and motion work in real-world contexts. CG animation and real-world footage make abstract ideas concrete, supporting students as they observe and explain physical phenomena.	
S.1.7.A Explain how pushes and pulls can start, stop, or change the speed or direction of an object's motion.	Formula 1 Car Hot Air Balloon Hovercraft Maglev Train Rocket Ship Snowboarding	
S.1.7.B Plan and conduct a descriptive investigation that predicts how pushes and pulls can start, stop,	Formula 1 Car Hot Air Balloon	

Hovercraft

Maglev Train Rocket Ship Snowboarding

or change the speed or direction of an object's

motion.

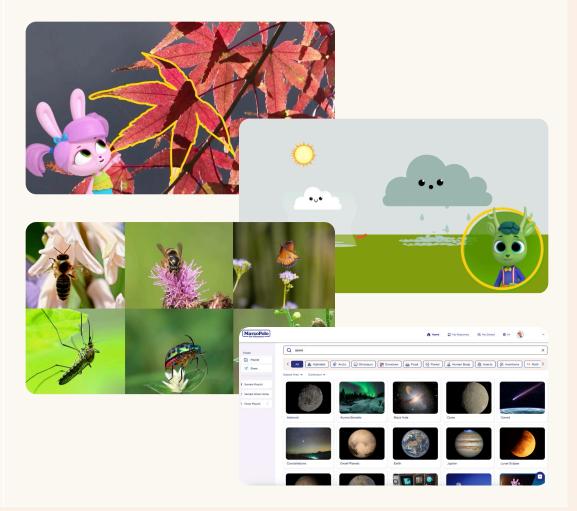
TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.8 Force, motion, and energy The student knows that energy is everywhere and can be observed in everyday life. The student is expected to:	MarcoPolo Learning Video Lessons use engaging CG animation to make completed concepts like force, motion, and energy accessible to young learners. By breaking down these ideas into simple, relatable examples, our video content helps children see how energy is all around them and how it influences everyday life. From the magnetic features of a Maglev Train to the friction created while snowboarding, our digital content shows children how to observe and understan the principles of energy and motion in the world around them.
	less friction
	more friction

TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.8.A Investigate and describe applications of heat in everyday life such as cooking food or using a clothes dryer.	Bread From Around the World Chinese Dumplings Chocolate Factory Dried Fruit Food Storage Pasta Popcorn
S.1.8.B Describe how some changes caused by heat may be reversed such as melting butter and other changes cannot be reversed such as cooking an egg or baking a cake.	Bread From Around the World Chinese Dumplings Chocolate Factory Dried Fruit Food Storage Pasta Popcorn

Skills: Earth and Space

S.1.9 Earth and Space

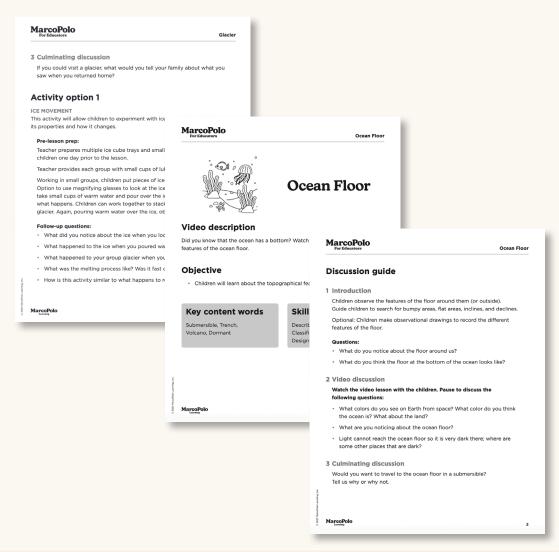
The student is expected to describe and predict the patterns of seasons of the year such as order of occurrence and changes in nature. Children are invited to explore **relationships and patterns** within the natural world and in the sky with our Polo Characters as they investigate the Earth and sky. Our engaging digital content provides children with an approach that makes learning meaningful, as they learn about patterns within nature such as the water cycle, changing seasons, and movement in space.



TEKS Science, Grade 1 S.1.10 Earth and Space The student knows that the natural world includes earth materials that can be observed in systems and process. The student is expected to:

MarcoPolo Learning Alignment

The MarcoPolo Video Lessons encourage children to explore Earth systems and materials, from the frigid Arctic lands to the hot Savanna grasslands and all the way to the ocean floor. Observation skills are modelled in each Video Lesson and the activity options offer multiple learning opportunities to **observe, experiment, design**, and **play** with various materials.



TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.10.A Investigate and document the properties of particle size, shape, texture, and color and the components of different types of soils such as topsoil, clay, and sand.	Compost Earthworm Sandstorm Terracotta Soldiers
S.1.10.C Compare the properties of puddles, ponds, streams, rivers, lakes, and oceans, including color, clarity, size, shape, and whether it is freshwater or saltwater.	Beaver Fish The Dead Sea The Ocean Floor The Water Cycle
S.1.10.D Describe and record observable characteristics of weather, including hot or cold, clear or cloudy, calm or windy, and rainy or icy, and explain the impact of weather on daily choices.	Blizzard Clouds Hail Humidity Hurricane Lightning Meteorolgist Rain Rainbow Sandstorm Seasons Snow The Water Cycle Thunder Tornado Weather Tools Wind

TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.11 Earth and space The student knows that earth materials and products made from these materials are important to everyday life. The student is expected to:	Video Lessons and Educator Guides support teachers and students in examining the natural world and recognizing how natural processes contribute to everyday products. Lessons highlight examples such as gathering maple syrup from trees or the role of earthworms in breaking down material to enrich soil. These connections help students observe, describe, and explain how humans and nature interact.
S.1.11.A Identify and describe how plants, animals, and humans use rocks, soil, and water.	Clouds Compost Earthworm Pillbug Plants on Your Plate Rain The Amazing Chickpea The Water Cycle
S.1.11.B Explain why water conservation is important.	Rain The Water Cycle
S.1.11.C Describe ways to conserve water such as turning off the faucet when brushing teeth and protect natural sources of water such as keeping trash out of bodies of water.	Plastic

TEKS Science, Grade 1	MarcoPolo Learning Alignment	
Skills: Organisms and Environment		
S.1.12 Organisms and environment The student knows that the environment is composed of relationships between living organisms and nonliving components. The student is expected to:	Children are invited to explore diverse environments and the relationships between living organisms, discovering the features and classifications that define living things. From the eucalyptus trees of Australia, where they may observe a sleeping koala, to the savannas of Africa with its prides of lions, MarcoPolo Learning content immerses children in a variety of habitats while highlighting the unique needs of plants and animals around the world.	
S.1.12.A Classify living and nonliving things based upon whether they have basic needs and produce young.	American Robin Baby Pets Bald Eagle Gray Wolf Gibbon Insect Food Chain Insect Life Cycle Koala Lion Mosquito Pine Forest Puffin Platypus Seahorse White-tailed Deer Western Lowland Gorilla	
S.1.12.B Describe and record examples of interactions and dependence between living and nonliving components in terrariums or aquariums.	Fish Pet Lizard	

TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.12.C Identify and illustrate how living organisms depend on each other through food chain.	Arctic Fox Arctic Plants Cane Toad Caribou Compost Food Insect Food Chain Plants on Your Plate The Great African Migration Wildebeest
S.1.13. Organisms and environments The student knows that organisms resemble their parents and have structures and undergo processes that help them interact and survive within their environments. The student is expected to:	Children are invited to explore the family structures of various animals, from insects and reptiles to mammals and birds. Through a blend of real-world footage and engaging CG animation, children can journey through different habitats, life cycles, and discover the unique adaptations that help organisms survive and thrive in their environments. From the life cycle of a tiny insect to the journey of a baby sea turtle, children learn how animals resemble their parents and develop specialized structures and behaviors that allow them to interact with and survive in their surroundings.



TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.13.A Identify the external structures of different animals and compare how those structures help	Arctic Hare Anteater
different animals live, move, and meet basic needs	Bald Eagle
for survival.	Bat-Eared Fox
	Basilisk Lizard
	Baby Sea Turtle
	Basking Shark
	Beaver
	Chipmunk
	Cheetah
	Echidna
	Frill-necked Lizard
	Giraffe
	Harp Seal
	Hammerhead Shark
	Hippopotamus
	Insect Bodies
	Insect Life Cycle
	Molting
	Parrotfish
	Pufferfish
	Pillbug
	Polar Bear
	Red-eyed Tree Frog
	Savanna Elephant
	Sea Otter
	Sea Lion
	Spider Monkey
	Stick Insect
	Toucan
	Woodpecker
	Whale Shark
	Zebra

TEKS Science, Grade 1	MarcoPolo Learning Alignment
S.1.13.B Record observations of and describe basic life cycles of animals, including a bird, a mammal, and a fish.	American Robin Baby Pets Baby Sea Turtle Coral Reef Fish Harp Seal Insect Eggs Insect Life Cycle Lion Puffin Seahorse Western Lowland Gorilla
S.1.13.C Compare ways that young animals resemble their parents.	Baby Pets Baby Sea Turtle Harp Seal Larvae Kangaroo Koala Lion Nile Crocodile White Tailed Deer



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