






Next Generation Science Standards





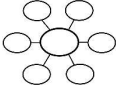
Grade 1– Science

DE Experience and Mystery Science Resources






Physical Science

Standard: 1-PS4-1		Plan and conduct investigations to provide evidence that vibrating materials can make sounds and that sound can make materials vibrate.
 Mystery Science Lesson		How do they make silly sounds in cartoons? Where do sounds come from?
 Video		DEMystified: Vibration and Sound DEMystified: Vibration and Sound (Spanish) Make Your Own Instrument Sorting by Sound Sound Vibrations Sound Vibrations (Spanish) 3M Science at Home: Feeling Sound How Deaf People Interact with Music Investigating Sound: Vibration and Sound Investigations
 Virtual Lab		Sound All Around Sound All Around (Spanish)
 Activity		Recording Sounds
 Ready to Use		Physical Science Choice Board (K-2) Sound






CURRICULUM ALIGNED RESOURCES – NGSS

Standard: 1-PS4-2		Make observations to construct an evidence-based account that objects in darkness can be seen only when illuminated.
 mystery	Mystery Science Lesson	Can you see in the dark?
	Video	Sources of Light Sources of Light (Spanish) Light and Photography Earth to Luna!: Say Cheese Earth to Luna!: Say Cheese (Spanish) Earth to Luna!: Flying Lights Earth to Luna!: Flying Lights (Spanish) What are Observations?
	Image	Close up of Nurse Looking at X-Ray in Light Close up of Boy Reading Book with Pictures Coral and rock formation Scuba diver A Man Watches the Stars
	SOS	Eye Spy for Students
	Graphic Organizer	Graphic Organizer: Cause and Effect

CURRICULUM ALIGNED RESOURCES – NGSS






Standard: 1-PS4-3		Plan and conduct investigations to determine the effect of placing objects made with different materials in the path of a beam of light.
 Mystery	Mystery Science Lesson	What if there were no windows?
	Video	Refraction: Bending Light Waves Refraction: Bending Light Waves (Spanish) Jupiter and the Shadows Jupiter and the Shadows (Spanish) Investigations
	Activity	Hands-On Activities: Letting Light Through Hands-On Activities: Making Shadow Puppets Three Shadows STEM Day: Mystic Mirrors STEM Day: Visibility of Light Young Scientist Lab: Light and Shadow (K-2)
	Image	Interior of rose window in Notre Dame, Paris. Cluster of White Translucent Jelly Fish Close up of Interior of Restaurant Looking Out Close up of Slatted Window Blinds in Window
	SOS	Four to One for Students

CURRICULUM ALIGNED RESOURCES – NGSS






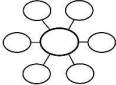
Standard: 1-PS4-4		Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance.
 Mystery	Mystery Science Lesson	How could you send a secret message to someone far away? How do boats find their way in the fog?
 Video		Long Distance Call Long Distance Call (Spanish) Earth to Luna!: Hello, Hello! Earth to Luna!: Hello, Hello! (Spanish) Introduction: Stethoscope and Sound Making a Model Stethoscope Sound Observations Designing for Communication: Design a Communication Code The History of the Lighthouse Discovery Science Alliance: Using Science Tools
 Image		A lighthouse in Peggy's Cove, Nova Scotia. String Can Phone
 Activity		STEM Day: Sending Secret Messages STEM Day: It's a Secret!
 Virtual Lab		Sound Waves Sound Waves (Spanish)

CURRICULUM ALIGNED RESOURCES – NGSS







Life Science

Standard: 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.
	Mystery Science Lesson	Why do birds have beaks? Why are polar bears white? Why don't trees blow down in the wind? What do sunflowers do when you're not looking?
	Video	Seeds and Burrs A 'Fasten-ating' Invention A 'Fasten-ating' Invention (Spanish) Inventors Who Changed the World (Cai Lun) Nature-Inspired Design Discovery Science Alliance: Using Science Tools
	Activity	STEM Day: And the Ears Have It Family Activity Engineering, Nature Style! Design Challenge
	Image	Mule Deer Portrait close-up Key Deer Turtle, Box Bird Outstretched in Sky Savannah with acacia trees
	SOS	Spotlight on Strategies: Journals

CURRICULUM ALIGNED RESOURCES – NGSS








Standard: 1-LS1-2		Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.
 Mystery	Mystery Science Lesson	Why do baby ducks follow their mother?
 Video		Real World Phenomena Jr.: Growing Animals Real World Phenomena Jr.: Growing Animals (Spanish) Mammals (subtitled) Squirrel Cam Animal Behavior: Chickadee Cam Animal Behavior: Chickadee Cam (Spanish)
 Image		Goshawk feeds chicks Nursery Web Spider with Egg Sac Hippopotamus with calf (2) Elephant with Calf (2) Baboon with Young Dipper chicks
 Ready to Use		Life Science Choice Board (K-2)- Heredity and Traits
 SOS		Eye Spy for Students
 Graphic Organizer		Graphic Organizer: Key Details Science Flip Book

CURRICULUM ALIGNED RESOURCES – NGSS







Standard: 1-LS3-1		Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.
 Mystery Science Lesson		How can you help a lost baby animal find its parents? Why do family members look alike? What will a baby plant look like when it grows up?
 Video		How Do Animals Grow? How Do Animals Grow? (Spanish) What are Observation?
 Image		Mother and young Baboon sitting Three Giraffes Great Grey Owl chicks Mother Great Gray Owl
 Activity		STEM Day: Chip Off the Old Block
 Exploration		Animal Snap - Who's My Baby? Animal Snap – Who's My Baby? (Spanish)
 SOS		Get Venn-y With It for Students Eye Spy for Students

CURRICULUM ALIGNED RESOURCES – NGSS

Earth & Space Science

Standard: 1-ESS1-1		Use observation of the sun, moon, and stars to describe patterns that can be predicted.
	Mystery Science Lesson	Could a statue’s shadow move? What does your shadow do when you’re not looking? How can the Sun help you if you’re lost? When can you see the full moon? Why do stars come out at night? How can stars help you if you get lost?
	Video	Real World Phenomena Jr.: Exploring the Sky Real World Phenomena Jr.: Exploring the Sky (Spanish) DEMystified: Day and Night DEMystified: Day and Night (Spanish) Earth to Luna!: Nighty Night, Sun The Sun The Sun (Spanish) Luna's Book of Constellations Constellations Constellations (Spanish) What are Observations?
	Interactive	Seasons
	Reading Passage	Shadows
	Activity	STEM Day: In the Shadows
	Song	Science with a Song (Singing Science): Earth Goes Round the Sun
	Graphic Organizer	KWL Chart

CURRICULUM ALIGNED RESOURCES – NGSS

Standard: 1-ESS1-2		Make observations at different times of year to relate the amount of daylight to the time of year.
 Mystery	Mystery Science Lesson	Why do you have to go to bed early in the summer?
	Video	Changing Day and Night Leaves The Revolving Earth What are Observations?
	Image	Fall leaves (2) Fall Leaves Iceland in August, around 11 PM Fisherman at sunrise Close up of Girl Stepping on Rock Wall
	Interactive	Seasons Seasons (Spanish)
	Ready to Use	Seasons: K-2 Lesson Leaves and Autumn: K-2 Activity
	SOS	Spotlight on Strategies: Journals