Grade	Teacher Resources Full Year TG	Unit	Lesson #	Focus	Lesson Question and Link	Standard Prioritized	Lesson Prep	Mystery Pack Materials	Vocabulary Slides	Mini-Lesson Extension
	Unit 1 Anchor Layer Teacher Guide Unit 1 Student Printouts Unidad 1 Student Printouts Spanish	1 Human Body, Vision, & The Brain	AL	Anchor Layer	Owl Ambush	4-PS4-2	Owl System Model - 1 per student See-Think-Wonder- 1 per student	☐		
			1	Muscles & Skeleton	Why do your biceps bulge?	4-LS1-1	See Prep Instructions Robot Finger Template - 1 per student	☑	English Spanish	Why do our skeletons have so many bones? What would happen if you didn't have a skull? How does the heart pump blood? Why do we need blood? Why do we get hiccups?
			2	Light, Eyes, & Vision	What do people who are blind see?	4-PS4-2, 4-LS1-1	See Prep Instructions Front of Eye Printout - 1 per student	☑	English Spanish	How do you know if you need glasses? How is a rainbow made? What's at the end of a rainbow?
			3	Structure & Function of Eyes	How can some animals see in the dark?	4-PS4-2, 4-LS1-1	See Prep Instructions Pupil Card- 1 per student	☐	English Spanish	Why do we have tears when we cry?
			4	Brain, Nerves, & Information Processing	How does your brain control your body?	4-LS1-2	Think Fast! - 1 per student Paper- 1 per student Rulers- 1 per student	☐	English Spanish	
			PT	Performance Task	How are animals and plants like machines?	4-PS4-2, 4-LS1-1, 4-LS2	See Prep Instructions Animal and Plant System Model Final Project Rubric -teacher-only resource Animal and Plant System Model Project -1 per student Animal and Plant System Model Readings- 1 per student Animal and Plant System Model Resource -teacher-only resource	☐		Why do some people get carsick? How do optical illusions trick us?
	Unit 2 Anchor Layer Teacher Guide Unit 2 Student Printouts Unidad 2 Student Printouts Spanish	2 Animal & Plant Adaptations	AL	Anchor Layer	Up in the Trees	4-LS1-1	Think See Wonder- 1 per student Survival of the Slowest- 1 per student	☐		
			1	Animal Adaptations	Why do some sea creatures look so strange?	4-LS1-1	Frogfish Field Journal -print single-sided. Frogfish Field Journal Key 1 per class Pipe Cleaners -1 per student Scissors- 1 pair per pair	☐	English Spanish	How do jellyfish sting? Why can't fish breathe on land? What's the fastest ocean animal?
			2	Learned Behavior & Instincts	Why would a sea turtle eat a plastic bag?	4-LS1-2	See Prep Instructions Raccoon Behavior -1 per student Raccoon Brain Model- 1 per pair Raccoon Memory Cards - 1 per pair Raccoon Senses -1 per student Raccoon Senses & Behavior Key-1 per class	☐	English Spanish	Do sharks really want to eat people?
			3	Plant Adaptations	Why don't the same trees grow everywhere?	4-LS1-1	See Prep Instructions Anchortown Info- 1 per student Evidence (Roots & Branches)- 1 per studer Solve The Puzzle -1 per student Tree Detective Answer Key -1 per class Tree Roots -1 per student	☐	English Spanish	Why don't all trees lose their leaves in the fall? How do flowers bloom in the spring? Do any plants eat animals?
			PT	Performance Task	How do Sloths Survive? PT (Required LPA)	4-LS1-1	Life in the trees- 1 per student Survival in the Slow Lane- 1 per student	☐		
	Unit 3 Anchor Layer Teacher Guide Unit 3 Student Printouts Unidad 3 Student Printouts Spanish	3 **Earth's Features & Processes** Aligns to CKLA D5	AL	Anchor Layer	Fossil Finds	4-ESS1-1 4-ESS2-1 4-ESS2-2	Ashfall Fossil Beds Evidence Chart - 1 per student Ashfall Fossil Beds Evidence Chart- Key 1 per class Ashfall Fossil Beds Explanation- 1 per student Ashfall Fossil Beds Explanation key- 1 per class See-Think-Wonder - 1 per student	☐		
			1	Volcanoes & Patterns of Earth's Features	Could a volcano pop up where you live?	4-ESS2-2	See Prep Instructions Volcano Discoveries-1 per pair Volcano Discoveries Key- 1 per class Volcano Mapping- 1 per 8 students Volcano Mapping key -1 per class Colored Pencils- 1 per pair	☐	English Spanish	Could a mountain turn into a volcano?
			2	Volcanoes & Rock Cycle	Why do some volcanoes explode?	4-ESS1-1	See Prep Instruction Lava Experiment- 1 per student Lava Mat- 1 per pair	☐	English Spanish	Why does this rock look like a sponge? What is the Moon made of?
			3	Weathering & Erosion	Will a mountain last forever?	4-ESS1-1	Black plastic container- 1 per pair Paper Plates- 1 plate per pair Sugar Cubes- 5 cubes per pair Sugar Shake Data- 1 per student Markers - 2 markers per pair	☑	English Spanish	
			4	Sedimentary Rock & Fossils	What did your town look like 100 million years ago?	4-ESS1-1	See Prep Instructions Colossal Canyon- 1 per student Colossal Canyon Key- 1 per student Fossil Cards - 1 per pair	☐	English Spanish	How old is the Earth? What's the best place to look for dinosaur fossils?

Grade 4			5	Erosion, Natural Hazards, & Engineering	Can you design a building that survives an earthquake?	4-ESS3-2, 3-5-ETS1-2	See Prep Instructions Earthquake Engineering Printout Ruler	☑	English Spanish	How do earthquakes happen? Why is it so hard for firefighters to put out wildfires?
			PT	Performance Task	How can you figure out where a rock came from?	4-ESS1-1 4-ESS2-1 4-ESS2-2	See Prep Instructions Story of a rock- 1 per student Rubric - 1 per class Answer Key -1 per class	☐		
	Unit 4 Anchor Layer Teacher Guide Unit 4 Student Printouts Unidad 4 Student Printouts Spanish	4 Sound, Waves, & Communication	AL	Anchor Layer	Seeing Sounds	4-PS4-1	Seeing Sound- 1 per student See- think- wonder waves of sound	☐		
			1	Pattern Transfer & Technology	How do you send a secret code?	4-PS4-3, 3-5-ETS1-3	See Prep Instructions Snack decoder - 1 per student Sound Code- 1 per student Visual Code - 1 per student Engineering Materials- 2 per student	☐	English Spanish	How were emojis created? Who invented the alphabet?
			2	Sound, Vibration, & Engineering	How far can a whisper travel?	4-PS4-1 3-5-ETS1-2	See Prep Instructions Paper Cup Telephone- 1 per student Paper Cup Answer Key- 1 per class Paper Cup Teacher Tips - 1 per class	☑	English Spanish	How do bats find things in the dark? How do phones work?
			3	Sound & Vibrations	What would happen if you screamed in outer space?	4-PS4-1	balloons - 1 per pair binder clips (3/4")- 1 per pair Sound Blobs- printout- 1 per class Scotch or masking tape - 1 roll per class	☑	English Spanish	
			4	Sound Waves & Wavelength	Why are some sounds high and some sounds low?	4-PS4-1	See Prep Instructions Be the vibration- 1 per student Be the vibration Answer Key - 1 per class Sound Vibrations- 1 per student Sound Vibrations Answer Key- 1 per class	☑	English Spanish	How are waves made in the ocean?
			PT	Performance Task	How can you make sound waves visible ?	4-PS4-1	See Prep Instructions Sound Wave Watcher- 1 per student Sound Wave Watcher Rubric - 1 per student	☐		
	Unit 5 Anchor Layer Teacher Guide Unit 5 Student Printouts Unidad 5 Student Printouts Spanish	5 **Energy & Energy Transfer** Aligns to CKLA D4	AL	Anchor Layer	Rube Goldberg Machine	4-PS3-1 4-PS3-2 4-PS3-3 4-PS3-4	Rube Goldberg Machine Model -1 per student See-Think-Wonder- 1 per student	☐		
			1	Speed & Energy	How is your body similar to a car?	4-PS3-1	See Prep Instructions Twist-o-matic- 2 per pair Twist-o-matic challenge - 1 per student Answer Key -1 per class	☑	English Spanish	
			2	Gravitational Energy, Speed, & Collisions	What makes roller coasters go so fast?	4-PS3-1 4-PS3-3	See Prep Instructions Alligator printout - 1 per group Bumper Coaster Part I Key- 1 per class Bumper Coaster Part I Tracks- 1 per group Collision Experiments -1 per pair Distance & Height Experiments- 1 per student	☑	English Spanish	Why don't people fall out of roller coasters when they go upside down?
			3	Collisions & Energy Transfer	How can marbles save the world?	4-PS3-3	See Prep Instructions Bumper Jumper Game- 1 per pair Bumper Jumper with foil - 1 per pair Collision Track - 1 per pair Landing Zones Tracker - 1 per pair	☑	English Spanish	
			4	Energy Transfer & Engineering	Could you knock down a building using only dominoes?	4-PS3-4 3-5-ETS1-1	See Prep Instructions Chain Reaction Starter Kit- 1 per student Marble Corral- 1 per student	☑	English Spanish	
			5	Energy Transfer & Engineering	Can you build a chain reaction machine?	4-PS3-4 3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	See Prep Instructions Chain-Reaction Starter Kit - 1 per student Pop-Up Sign - 1 per student	☑	English Spanish	
			PT	Performance Task	Can you design and build your own Rube Goldberg Machine?	4-PS3-1 4-PS3-2 4-PS3-3 4-PS3-4	See Prep Instructions Chain-Reaction Starter Kit - 1 per student Rube Goldberg Conceptual Model - 1 per student Rube Goldberg Final Project- 1 per student	☐		
	yer Teacher Guide dent Printouts t Printouts Spanish	6 **Light, & Heat** to CKLA D4	AL	Anchor Layer	The Three Towers	4-PS3-2	Mystery Tower - 1 per student See-Think-Wonder- 1 per student	☐		
			1	Renewable Energy & Natural Resources	What's the best way to light up a city?	4-ESS3-1	Energy Plan -1 per student Energy Plan Answer Key -1 per class Energy Signs -1 per class Wind, Sun, & Water Energy -1 per student Wind, Sun, & Water Energy Answer Key -1 per	☐	English Spanish	
			2	Electrical Energy	What if there were no electricity?	4-PS3-2 4-PS3-4 3-5-ETS1-1 3-5-ETS1-3	See Prep Instructions Flashlight Maker - 1 per student	☑	English Spanish	How do batteries work?

Unit 6 Anchor Lo Unit 6 Stude Unlocked V Student	**Electricity** Aligns t	3	Heat Energy & Energy Transfer	How long did it take to travel across the country before cars and planes?	4-PS3-2 4-PS3-4	See Prep Instructions Do Not Touch The Light Bulb! -1 per class You need 1 sign for each Heat Spinner Station Get to Know Your Spinner - 1 per pair Heat Spinners - 1 per group Inventing a Heat Engine - 1 per student	☑	English Spanish	
		PT	Performance Task	Can we get energy from the Sun at night?	4-ESS3-1	See Prep Instructions Energy Readings worksheet - 1 per group of 4 Energy Readings Answer Key- 1 per class	☐		
			If a lesson has been highlighted in grey blue it means the lesson's standard has been covered in Tribal History/Shared History, and is optional. If you skip please be sure to teach the TH/SH lesson that cover this standard.						
			If a lesson has been highlighted in red it means the lesson's standard has been covered in CKLA, and is optional.						
			If text is purple it means a Spanish resource has been linked.						
			If text is blue it means an English resource has been linked						
			If text is black it means a resource has been linked that can be printed in either English and Spanish						
			If prep instructions have been highlighted yellow it means advanced prep is required						