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1st Grade Science Pacing Guide 18-19

4.0 Target	3.0 Target	2.0 Target	Does Not Extend	T1	T2	T3
Unit 1: Light and Sound						
Plan and conduct an investigation AND explain how their instrument causes sound showing the vibration of the instrument. AND Uses specific science vocabulary to explain that vibration causes sound.	Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.	Plan and conduct an investigation without a clear understanding that vibration causes sound.		X		
Students can explain why light can travel through their chosen object.	Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.	Identify objects that allow some light, all light, no light, or reflects light.		X		
Unit 2: Plant and Animal Parts						
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. AND Explain how your design mimics a plant and/or animal.	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.	Designs a model without keeping item safe.		X		
Students can explain in more than one way how animal parents help their offspring survive.	Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.	With guidance and support describes the way animal parents help their offspring survive. State factors that threaten or inhibit the survival of animals.			X	
Unit 3: Sky Patterns						
Using observations, student creates a model AND explains the movement of the sun through the sky using the vocabulary words east, west, sunrise, midday and sunset AND is able to explain why it is important to understand patterns in the sky.	Using observations student creates a model AND explains the movement of the sun through the sky using the vocabulary words east, west, sunrise, midday and sunset.	Using observations student creates a model AND shows the pattern of the sun in the sky without using the vocabulary words.			X	