

Wright City Science Curriculum

Unit 4 - 2nd grade

Grade	2
Unit of Study	Sound Waves for Information Transfer
Length of Unit	10 days; 30 minutes per day
Sample Essential Questions	Sample Corresponding Big Ideas
	Sound can make material (matter) vibrate, and vibrating material (matter) can make sound (A.1)
	A situation that people want to change or create can be approached as a problem to be solved through engineering. Such problems may have many acceptable solutions (A.1)
	Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating ideas for a problem's solutions to other people (A.1)

Missouri Learning Standards

Priority Standards	Supporting Standards
2.PS4.A.1 Plan and conduct investigations to provide evidence that changes in vibration create change in sound	2.ETS1.A.1 Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.
	2.ETS1.B.1 Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem
	2.W.3.A Gather, analyze, evaluate, and use information from a variety of sources to apply the research process. (A.1)

Unit 4 Sequence			
MLS	Topic(s)	Learning Targets	Academic Vocabulary
			force, motion, vibration, sound wave, wave length, amplitude, pitch, volume, matter

MLS	Learning Activities	
2.PS4.A.1 Plan and conduct investigations to provide evidence that changes in vibration create change in sound	Related Sound Investigations (2.PS4.A): - Rubber Band Guitars: Stretch rubber bands of different thicknesses over a box to explore how vibration produces sound. - Sound Wave Vibrations: Place sprinkles or small rice grains on a plastic-wrapped bowl and make sound near it to visualize how sound waves create vibration.	Must Do
	Ada Twist, Scientist	Option Level
		Option Level
		Option Level
		Option Level
		Option Level
		Option Level

Assessments		
MLS	Description or Location	Rubric/Location