

Rutherford County Schools – Individual Learning Modules

Grade	Course
2 nd Grade	Science
Unit Focus	
Plan and carry out investigations to demonstrate the relationship between vibrating materials and sound highlighting the cause and effect relationship between vibration and sound.	
Week of 4/6 – 4/10	
Standard(s)	
2.PS4.1 Plan and conduct investigations to demonstrate the cause and effect relationship between vibrating materials (tuning forks, water, bells) and sound.	
Online & Paper Resource(s)	
<ul style="list-style-type: none"> • Phenomenon: “Tuning Forks Resonance + Ping Pong Ball” <ul style="list-style-type: none"> ○ Make observations ○ Ask questions ○ What is causing the ping pong ball to move? • Watch “What is Sound?”—SciShow Kids • Complete the Observational Task below 	
Observational Task(s)	
<p>Can you cause a spoon hanging from a string to ring like a bell?</p> <ul style="list-style-type: none"> • Explore ways to cause a spoon to make a sound by tapping it with another spoon. • Plan and carry out an investigation to provide evidence that a vibrating spoon can cause a sound. <ul style="list-style-type: none"> ○ Materials: two spoons, string, large bowl, plastic wrap, water, tiny pieces of paper, rice, and other materials • Observe that a sound from a vibrating spoon can cause things to move. <ul style="list-style-type: none"> ○ Discuss with a parent/guardian how sound causes other things to vibrate. • Develop a model to show the vibrating motion of a spoon causes sound and sound causes things to move. 	
Expected Outcomes	
<p>“Tuning Forks Resonance + Ping Pong Ball”—Discussion/Answer Key Observable Task Answer Key</p>	