

## The Primary Stage of Grades (4-5) School Year 2022- 2023

Name:	Subject: Science Worksheet 1: How sounds are made	
Date: / /	Unit 7: Sound Class: Grade 4 CP (All Sections)	
Objective/s: - Investigate how sounds are made by vibrating sources.		
Question 1:		
Yuri hits the tuning fork to make a sou	und.	
He puts the tuning fork on water.		
tuning fork	pattern on the water	
Explain why there is a pattern on the	water.	















Question 2:		
Which of these statements is true?		
Tick (✓) the <b>correct</b> box beside each sentence.		
Sound can travel around corners.	true	false
Sound can spread out in all directions.		
Sound cannot travel through solids.		
Sound can travel through liquids.		
Sound can travel in a vacuum.		
Question 3:  A vacuum is a space without any air or other matt	ter.	
Explain why sound cannot travel through a vacuu	m.	

## Question 4:

The table shows the speed of sound through different materials. Use the table and the information to answer the questions below:

Material	Speed of sound (m/s)
Steel	6000
Water	1400
Air	355

a.	In which material did sound travel the fastest?
b.	In which material did sound travel the slowest?
С.	Which material is a solid?
d.	Which material is a gas?
e.	Draw diagrams of how the particles are arranged in steel, water, and air:
f.	Use the diagrams to explain why sound has different speeds in different
	materials.
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## Question 5:

Angelique shakes a bell to make a sound.



(a)	Complete the sentence.
	The bell makes a sound because it
(b)	Angelique shakes a smaller bell with the same force.
	It makes a different sound to the larger bell.
	Describe how the sound of the <b>smaller</b> bell is different.
(c)	Angelique shakes the smaller bell with less force.
	It makes a different sound.
	Describe how the sound made with less force is different.