



Y4 - SOUND (PART TWO)

VOCABULARY

Tier 2 (Academic) Vocabulary:

Evaluate, isolate, absorbed, reflected, density, frequency, attenuate, modify, optimize, criteria, efficiency

Tier 3 (Subject Specific) Vocabulary:

Sound insulation, acoustic absorption, acoustic reflection, echo, reverberation, pitch, column length, air column, frequency (Hz), noise pollution, decibel scale, ear defender, acoustic engineer

WHAT DO I ALREADY KNOW?

- I know about Vibration origins, state media conduction, amplitude/volume, pitch factors and ear structure.

KNOWLEDGE	SKILL
I can evaluate materials for their sound absorbing and insulating properties	COMPARATIVE TESTING
I can investigate how air column length and surface area alter pitch in wind/percussion instruments	PATTERN SEEKING
I can investigate how particle density affects sound wave speed across different solids and liquids	COMPARATIVE TESTING
I can investigate sound reflection (echoes) and absorption in different architectural spaces.	OBSERVING & TESTING
I can measure environmental noise levels in decibels and evaluate ear protection methods.	DATA GATHERING
I can apply scientific knowledge to design, construct, test, and evaluate an acoustic device	DESIGN & TESTING