

5th Grade Science

SOUND

STUDY GUIDE

Aligned to Virginia SOL 5.5

Science SOL 5.5: Sound

Definition: Sound is a vibration that travels through either fluids, gases or solids. The transfer of energy in sound waves is vibrations that are carried in waves.



Sound Waves:
Sound travels using vibrations from one object to another. Sound is produced as these vibrations travel through a fluid, solid or gas medium.

Sound is a form of mechanical energy produced and transmitted vibrating matter. Mechanical energy is the energy in which the particles of matter vibrate.

Sound travels through solids, liquids and gases. There are many different types of sound waves, and each has different properties. Sound waves are carried in waves.

Definition:
A sound wave travels through a medium through the vibration of particles of the medium (solid, liquid, or gas) through which the sound travels.

Sound travels in longitudinal waves and must have a medium through which to travel. Sound does travel through liquids and gases.



Sound wave

Describe the particles of matter you think together, travel's wave moves back/through with the through liquid and gases. Sound travels through solids through gases through the particles of a gas and liquid wave.

- Sound travels through gas (air) in the classroom. Think about how you hear sounds several seconds after you see lightning. Your classroom is not empty. Air is in the classroom.
- Sound travels through liquid (water). Think about how you hear sounds from the bottom of the ocean. If you're underwater.
- Sound travels through solid (the ground). You can hear the foot stepping on a desk. Listen to the ground and vibrations. Think about how you hear sounds with your feet pressing to the desk. When you are in contact to the desk, you can hear the sound.

High
Pitch (frequency)
Amplitude of wave
Amount of
Energy carried
Sound waves of
higher pitch are
stronger, louder
than waves.



High pitch

Low
Pitch (frequency)
Amplitude of wave
Amount of
Energy carried
Sound waves of
lower pitch are
weaker, softer
than waves.



Low pitch



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ML Morrison



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web acid base titrations are lab procedures used to determine the concentration of a solution one of the standard laboratory exercises in general chemistry is an acid base titration during an acid base

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web spreadsheet computations prelab report this is the type of computations the computer does to determine first and second derivatives refer to these spreadsheet columns for the comments below pH titration graph lab data provide columns a and b

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web 1 approximately 3 g of hydrated oxalic acid $H_2C_2O_4 \cdot 2H_2O$ was weighted to the nearest 0.01 g in a 50 mL beaker 2 about 30 mL of distilled water was added to the beaker to dissolve the oxalic acid 3 the solution was transferred into 250 mL

volumetric flask the beaker was rinsed and its contents were poured into the flask

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web aug 30 2022 acid base titrations are usually used to find the amount of a known acidic or basic substance through acid base reactions the analyte titrand is the solution with an unknown molarity

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web this problem has been solved you ll get a detailed solution from a subject matter expert that helps you learn core concepts see answer question part b acid base titration lab report i determining the concentration of sulfuric acid solution H_2SO_4 by titrating it with NaOH solution

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web solution a titrant volume 0 ml the solution pH is due to the acid ionization of HCl because this is a strong acid the ionization is complete and the hydronium ion molarity is 0.100 M the pH of the solution is then $\text{pH} = -\log 0.100 = 1.000$ b titrant volume 12.50 ml

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web rp 1 make up a volumetric solution and carry out a simple acid base titration physical chemistry acids and bases pH curves titrations and indicators titrations of acids with bases students should be able to perform calculations for these titrations based on experimental results inorganic chemistry transition metals variable

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web one type of titration uses a neutralization reaction in which an acid and a base react to produce a salt and water in equation 1 the acid is HCl hydrochloric acid and the base is NaOH sodium hydroxide when the acid and base react they form NaCl sodium chloride which is also known as table salt

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web acid and base titrations lab report chm 114 jx abstract this goal was to give us experience finding the standardization of through the use of a primary standard in this experiment we will be using NaOH and HCl as well as KHP

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web question lab report acid base titrations purpose of the experiment in this experiment we will titrate an acid with a base to determine the concentration of an acid with a base to determine the concentration of an acidic sample

