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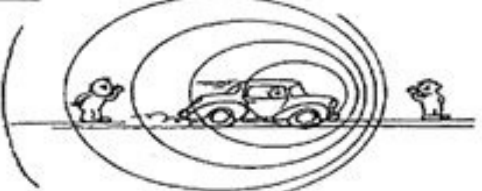
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11

Doppler Effect Worksheet

Name: \_\_\_\_\_



1. When an automobile moves towards a listener, the sound of its horn seems relatively

a. Low pitched    b. High Pitched    c. Normal

2. When the automobile moves away from the listener, its horn seems

a. Low pitched    b. High Pitched    c. Normal

3. The changed pitch of the Doppler effect is due to changes in

a. Wave speed    b. wave frequency

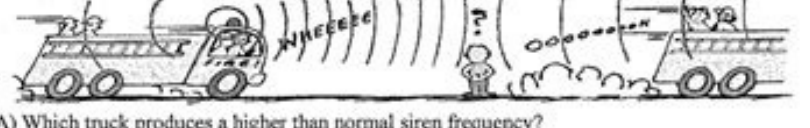
4. Circle the letter of each statement about the Doppler Effect that is true.

a. It occurs when a wave source moves towards an observer  
b. It occurs when an observer moves towards a wave source  
c. It occurs when a wave source moves away an observer  
d. It occurs when an observer moves away a wave source

5. True / False: A moving wave source does not affect the frequency of the wave encountered by the observer.

6. True / False: A higher frequency results when a wave source moves towards an observer.

7. Two fire trucks with sirens on speed towards and away from an observer as shown below.



A) Which truck produces a higher than normal siren frequency?

B) Which truck produces a lower than normal siren frequency?

8. Draw the sound waves around the moving truck below similar to the simulation from the beginning of class. Describe the sound that each observer would hear in terms of its pitch.



11

Doppler effect

To stay on track:

The liveworksheets on the Doppler effect and the homework given at the end of the worksheets, should take you a week to complete and mark.

The memo to the homework will be sent at the end of the week 😊

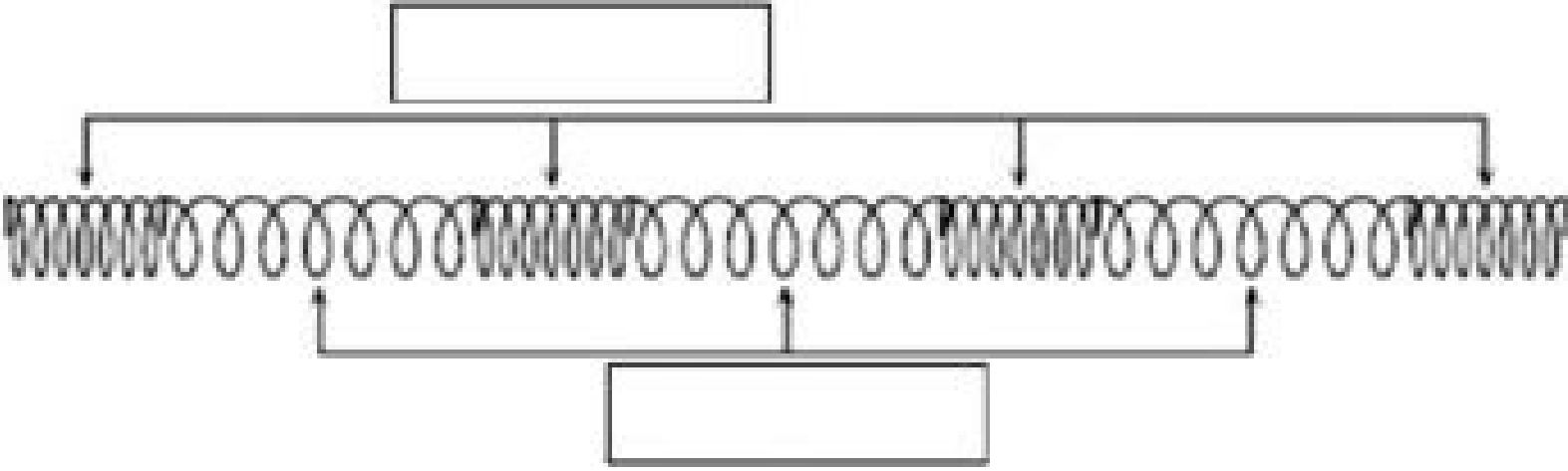
1.     Sound waves are examples of    transverse    longitudinal waves

2. \_\_\_\_\_ are regions in the above mentioned wave where the particles are closest together.

3. \_\_\_\_\_ are regions in the above mentioned wave where the particles are furthest apart.

Label the wave sections below:

4.



5. \_\_\_\_\_ of a wave refers to the no of compressions (or rarefactions) that pass a given point per \_\_\_\_\_.

6. The time taken for two successive compressions (or rarefactions) to pass a given point is known as the \_\_\_\_\_ of the wave.

7. Period of a wave is measured in \_\_\_\_\_ (only give the unit symbol)

8. Frequency of a wave is measured in \_\_\_\_\_ (only give the unit symbol)

LIVEWORKSHEETS

Situation 1: Source moving towards a stationary listener

$$f_L = \frac{v + v_L}{v + v_S} f_S$$

This is the formula for a moving observer and a moving source. Put in the values and find  $f_L$ .

The observed frequency heard by the listener is going to be higher than the frequency made at the source.

$$f_L = \frac{v + v_L}{v + v_S} f_S$$

If you notice the difference whether you add or subtract the  $v$ 's.

Your answer (3) that needs to be as big as possible.

In order to achieve this the denominator will have to be as small as possible and this you will need to adjust the values at the bottom in order to make the answer what as big as possible.

$$f_L = \frac{v + v_L}{v - v_S} f_S$$

Or you can write it as:

$$f_L = \frac{v + v_L}{v - v_S} f_S$$

Or you can write it as:

When a car approaches you, the sound waves that reach you have a shorter wavelength and a higher frequency. You hear a higher pitch sound.

LIVEWORKSHEETS







ENGINEER DEGREE PROGRAMMES The entrance exam consists of three parts: troubleshooting (Part 1), motivation questions (Part 2), English Learn more Cambridge International Examinations Cambridge International Advanced Subsidiary and Advanced Level \*0123456789\* PHYSICS 9702/02 Paper 2 AS Level Structured Questions For Examination from 2016 SPECIMEN Learn more Objectives: Sound pressure measurement 1. In order to observe interference phenomena More information Engineering Sciences 151 Electromagnetic Communication Laboratory Assignment 3 Fall Term 1998-99 WAVE PROPAGATION II: ALTA FRECUENCIA LINEA y MESURIOS REFLECTOMETER OBJECTIVES: To build more information Center Number of surnames Candidate to Examinar r s Use Other Names Candidate Signature A random spectrum is defined as a set of frequency and amplitude breakpoints, such as these: 0.050 Acceleration More information TEACHER S CLUB EXAMS GRADE 11 PHYSICAL SCIENCES: PHYSICS Paper 1 MARKS: 150 TIME: 3 hours INSTRUCTIONS AND INFORMATION 1.Chapter 20 Travel Caves Objective: To learn the basic basic of travel waves. If the distance between Earth and the Sun increased, more information and technology of World War II how the waves helped win the war: radar and sound in the objectives of World War II: 1. The next Diagram shows the range of wavelengths and frequencies for all types of radiation in the electromagnetic spectrum. The tone changes relative the movement of you (receiver) and more information chapter 21 Study questions Name: Class: Opción Múltiple Identify the letter of the choice that best completes the declaration or answer the question. 0.773 m 4. What is the wavelength of a sound wave of 256 hertz in the air in STP? If the question implies cycles, you must show all your mathematical work. 1 In this chapter, we observe the minor bodies, how your speeds can be measured and how much the chemical information 2 Chapter 13: Electrons in átomos á ¡No Write in the test Use an answer sheet! 1 point/problem 45 points Total 1. A position is a vector because it has a magnitude and direction: more information information: teacher: PD. Date: Staar 30 tek 8.8c science tutorial: Electromagnics tek 8.8c: explore how different wavelengths of the electromagnic spectrum, such as light and radio waves, are used for more information 5 question 5 question 5 question 5 question 1. 5. Instructions: Each basis of the physiological information of the Audician tests of Dr. Abdel Aziz Hussein Professor of Physiology Faculty of MEDICINE OF MANSURA INTRODUCTION DEF: Audit is the ability to perceive certain vibrations of pressure in information in the information More information AP Physics 2012 General score notes on 2012 AP Physics Score guidelines 1. A vector is represented in print by a bold symbol in ital, travel to the legal speed limit, n'Aicamrofni n'Aicamrofni s;Am ecilseD b. sotnup 3 elav elpit!Am n'Aicpo ed atugerp adac: odinos ed sadno ed abeurP 0,lobr!Á nu radraug rop saicarG( 2 m 6 01 71.1 areterrae al ed ater n'Aicces anu ne ,P PS-7.1 Physical Science Study Guide Unit 7 Wave properties and behaviors, electromagnetic spectrum, Doppler Effect Illustrate ways that the energy of waves is transferred by interaction with More information practice wave test. At time t = 0, the police car is overtaken by a car C, which is speeding More information COLLATED QUESTIONS: ELECTROMAGNETIC RADIATION 2011(2): WAVES Doppler radar can determine the speed and direction of a moving car. Students will learn some basic historical facts about the role of radar in the Battle of Britain More information 90732 3 907320 For Supervisor s Level 3 Science, 2008 90732 Describe selected properties and applications of EMR, radioactive decay, sound and ultrasound Credits: Four 2.00 pm Thursday 20 November 2008 More information Physics 248 Test 1 Solution (solutions to problems 25 are from student papers) Problem 1 (Short Answer: 2 points) An object's motion is restricted to one dimension along the distance axis. axis.

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