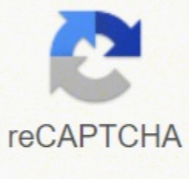


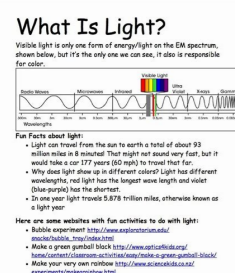


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Name: _____

EM WAVES Vocabulary Quiz II

Part One: Circle the letter of the best answer for each question.

1. What do you call a disturbance that moves energy?

- a) vacuum
- b) wave

2. The _____ tells how tall a wave is and the _____ how long it is.

- a) mass; weight
- b) amplitude; wavelength

3. What unit is used for the frequency, and means waves per second?

- a) hertz
- b) infrared



4. The electromagnetic spectrum includes all types of what?

- a) light waves
- b) magnets

5. Light bounces off a mirror, hitting your eyes. This is an example of _____.

- a) reflection
- b) interference

6. Light spreads out going through a small crack in a wall. This is an example of _____.

- a) reflection
- b) diffraction

7. The process in which energy is emitted as particles or waves is _____.

- a) interference
- b) radiation

8. In constructive interference, the result is _____.

- a) one wave keeps moving and the other is stopped
- b) the waves combine making a bigger amplitude

R. S. C Bradley

EM WAVES QUIZ QUESTIONS

1. In constructive interference, the result is _____.

2. In destructive interference, the result is _____.

3. A wave has a frequency of 10 Hz. How many waves would it pass off in one minute?

EM WAVES QUIZ QUESTIONS

1. In constructive interference, the result is _____.

2. In destructive interference, the result is _____.

3. A wave has a frequency of 10 Hz. How many waves would it pass off in one minute?

SCIENCE 8 – ELECTROMAGNETIC SPECTRUM WORKSHEET

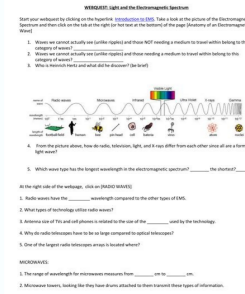
NAME: _____

Vocabulary			
Electromagnetic radiation	Gamma rays	Radiant energy	Visible light
Electromagnetic spectrum	Infrared waves	Radio waves	Wavelength
Frequency	Microwaves	Ultraviolet rays	X rays

Use your notes from pages 9 – 10 and the terms in the vocabulary box to fill in the blanks for the following nine questions. You will not need to use every term.

- 1) The _____ represents the different forms of electromagnetic radiation.
- 2) Light is classified as _____ because electrical and magnetic fields vibrate in a light wave.
- 3) _____ is energy that travels by radiation. An example of this is light.
- 4) Heat radiation, also known as _____, cannot be seen by your eyes but can be felt by your skin.
- 5) Microwaves are one type of _____.
- 6) _____ can be used to communicate with satellites.
- 7) Because _____ have the highest energy of all electromagnetic radiation, they are the most damaging to human tissue.
- 8) Compared to all other types of electromagnetic radiation, radio waves have the lowest _____.
- 9) An overexposure to _____ can result in sunburns and skin cancer.
- 10) Why does an empty plate not heat up in the microwave?

- 11) Why should you use sunscreen and a hat when you are out in the Sun?



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The workbook provides a range of practical activities to help students explore these notions and challenge them to register their answers. Each region of the electromagnetic spectrum includes:3 worksheets1 reading passage1 question set (coincides with reading passage)Digital versions of all materialsVideo tutorial on how to use these 100% digitallyMORE GRADE 4 MYSTERY SCIENCE RESOURCESComplete Grade 4 Unit BundleESubjects:Types:This is a supplemental package designed to enrich the original Mystery Science lessons. Anatomy of an Electromagnetic Wave:Á An electromagnetic wave is made up of changing electric and magnetic fields and is important way that energy is transported in the world around us. This resource goes over the anatomy of an orbital wave, including calculating wave speed using the equation speed = LT . Infrared oto waves beyond the visible light spectrum are infrared light waves. scientists use satellites to observe x-ray radiation from galaxies and stars like our sun. It's great to go out for substitute work! 98 questions included- type varies from open definition, multiple option, data analysis and calculations. these can also be used as an addition to their own human body unity. unit- human machinelesson theme. light, eyes, + visionmystery question- What do blind people see?This kit includes:3 worksheets1 reading passage1 set of questions (coincided with reading passage) digital version of all video tutorial materials on how to use these resources 100% digital science masics 4 unit BundlSubjects:Types:CCSS:RI.3.1, RI.3.2, RI.3.7, RI.4.1...NGSS ocean-2 sciences with 35 puzzles, this package gets more bang for your money, and highlights vocabulary that is necessary for the success of ap! you will have nine volumes of puzzle: volume 1-History and statistics1) history of psychology (comporting, psychology, hobbies, locke, james, materialism, brain, discards, empirism, structuralism, darwin, functionalism, dualism, mind, reflex, natural addition, titchener What if there was no electricity?This kit includes:3 worksheets1 reading passage1 set of questions (coincided with reading passage) digital version of all video materialshow to use these 100% Digital SCIENCE RESOURCES MESTERIA Complete grade 4Review (chap. 4 and 5) completely editable! This product was created to review chapters 4-5 for a class of secondary chemistry. You depend on electromagnetic energy every hour of each day. They range from near infrared as what is used in remote controls, to far infrared that can be detected as heat. observe the health of the vegetation and the composition of the soil. Vocabulary used: waves, wave height, wave period, crest, channel, fixed water line, wave period, orbital, transversal, longitudinal, disturbing 2 This is a 2-page guided note sheet. Keywords covered are earthquake, crust, upper mantle, lithosphere, seismometer, seismogram, magnitude, Richter scale, hypocenter, epicenter, liquefaction, fault, fault plan, interplate quake, subduction, sismic waves, body waves, surface wavPage 7These high school (AP or general) Psychology crossword puzzles make wonderful vocabulary reviews for students. This package consists of two crossword puzzles that highlight consciousness, sleep, hypnosis and psychoactive drugs. Students copy 20 keywords and their definitions. Microwave: microwaves penetrate through clouds, dust, smoke, snow and rain, making them ideal for communications satellites. As the third in the series on consciousness, this complete presentation TheLight & Light Waves (Ciencia and NGSS aligned) by this science package is a unit that covers all about light and light waves that are directly related to the first grade NGSS standards. Disaggregate this unit in small steps, ensuring that students understand the basics of light and light waves through worksheets, small printable books and practical activities! This package includes keyword posters such as: transparent, translucent, opaque, reflection and more. Visualization: of energy to image:Electromagnide energy is observed and recorded by saties and then then to the earth. scientists study stars and galaxies in the ultraviolet, as well as the composition of the Earth's atmosphere. x-rays: x-rays have a much higher energy and the Earth's atmosphere protects us from these harmful rays. This data, including the data from the visible spectrum, is processed in images. It's 2 pages and 12 questions. this unique resource of nasa on the web, printed and with complementary videos introduces electromagnetic waves, so behaviors and how scientists visualize this data. refer to my resource called "Earthquakes and ppt Failure Zones" that has the necessary answers for students to complete this guided note sheet. the key information covered in this ppt (a separate resource) includes: normal, reverse, slippery, divergent divergent, convergent, transforming limits, siesmic waves, epicentre, p waves, waves s, surface waves and richter scale. Check my other resources in my Tpt! package designed to enrich the original science mystery lessons. each copy page also includes an edge with geometric patterns that students can color and oar to design patterns if they want. radio waves: the longest wavelengths in the spectrum, radio waves can transport melodies from a radio station or be emitted by astronomical objects such as the sun's crown.Gamma rays: gamma rays have the greatest energy of any wave in the electromagnetic spectrum and are produced by the warmest and energetic objects in the universe. the system are the components of the Earth's radiation budget. visible light: all electromagnetic radiation is light, but we can only see a small portion of this radiation: the part we call visible light.snossel .snossel ecneicS yretyM lanigiro eht hcirme ot dengised egakcap latnemelppus a si sihT:sepyT:stcejbuSRG etelpmoCSECRUOSER ECNEICS YRETSYM 4 EDARG EROMyllatigid %001 eseht esu ot woh no lairutut oedVslairetam lla fo snoisrev latigDjegassap gnidaer htiw sedincioC tes noitseuq legassap gnidaer 1steehskrow 3:sedulcni tik sihT?tsaf os og sretsaoc rellor sekam tahW -noitseuQ yretyMrefsnarT ygrenE + snoisilloC -cipOT nosseLgnihyrevE gnizigrenE -tinU.tinu ygrene nwo ruoy ot noitidda na sa desu eb osla nac esehT .snossel ecneicS yretyM lanigiro eht hcirme ot dengised egakcap latnemelppus a si sihT:sepyT:stcejbuSUOSER ECNEICS YRETSYM 3 EDARG EROMyllatigid %001 eseht esu ot woh no lairutut oedVslairetam lla fo snoisrev latigDjegassap gnidaer htiw sedincioC tes noitseuq legassap gnidaer 1steehskrow 3:sedulcni tik sihT?elpoeP tuohitW neppaH noitceleS nAC -noitseuQ yretyMlavivruS + , NoitceLes Larutan, Noitairav Tiart -cipot nosselemit hguorht slamina -tinu.tinu.tinu lamina nwo ruoy ot Noitidda na sa desu eb osla nac esehT .erehpsomta eht yb dekolb si

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