

Unit 9: Waves and Sound

Essential questions:

- What is simple harmonic motion? Motion with a restoring force to bring something back through equilibrium. It occurs over and over in regular time intervals.
- What factors affect simple harmonic motion of a pendulum and a mass-spring system?
 For a pendulum: length, gravity... NOT the mass of the bob
 For a mass-spring system: k (the spring constant...how stiff the spring is), mass... NOT gravity
- What is a mechanical wave? Any wave requiring a medium for travel
- What distinguishes one mechanical wave from another? How the particles vibrate. For a transverse wave: particles vibrate perpendicular to wave motion(think doing 'the wave' in the football stadium...you stand up and down...wave moves left and right). For a longitudinal wave: particles vibrate parallel to wave motion (sound).
- How do the different characteristics used to measure waves relate to each other? Characteristics are speed (v), frequency (f), wavelength (λ), amplitude (A), and period (T). Relationships: $v = \lambda f$ and $f = 1/T$ and $T = 1/f$
- Why does the speed of a wave change passing from one medium to another? Because waves are a transmission of energy. That energy will travel differently in different materials. FREQUENCY NEVER CHANGES from medium to medium...so speed and wavelength change to compensate.
- What determines whether an incident wave pulse striking a boundary reflects inverted or not? It depends on the boundary. At FIXED boundaries, reflections are INVERTED. At FREE boundaries, reflections are UPRIGHT.
- How can the principle of superposition be used to describe wave interference in a variety of situations? If the waves are both on the same side of equilibrium will have constructive interference; if on opposite sides of equilibrium will have destructive interference.
- What are characteristics of a sound wave? Sound is longitudinal (like a slinky); sound needs a medium to travel, loudness is related to amplitude...or how much energy the sound wave has.
- Why does the speed of a sound wave change as it travels through different media or changes in the properties of the same media? Because waves are a transmission of energy. That energy will travel differently in different materials. FREQUENCY NEVER CHANGES from medium to medium...so speed and wavelength change to compensate.
- What is the Doppler Effect and how does it occur? A perceived shift in frequency. It occurs when there is movement between the sound source and the observer. For example, a train moves toward you blowing its horn. While moving towards you, you will perceive a higher frequency that is really being emitted because the motion of the train causes the wave crests to be closer together when they arrive at your ear. The opposite is true when its moving away from you.

Key vocabulary: (I am giving you the shortest possible definitions here...easy to remember...mostly to jog your memory. If you need more than this...LOOK THEM UP online or in the textbook.)

Simple harmonic motion – motion repeated over and over in the same time interval due to a restoring force

Spring constant – stiffness of a spring (k)

Restoring force – for SHM brings back through equilibrium

Period – seconds per cycle/wave (T)

Frequency – waves per second (f)

Mechanical wave - requires a medium for transport (all waves are mechanical EXCEPT electromagnetic waves)

Transverse wave – particles vibrate perpendicular to wave motion (like a wave on a rope)

Longitudinal wave – particles vibrate parallel to wave motion (like a slinky)

constructive interference - waves meet and add up

destructive interference – waves meet and subtract

Doppler effect - shift in frequency because either the sound is moving or the observer is moving or both are moving

Practice:

- List 4 examples of systems which exhibit simple harmonic motion.
 - A child on a swing (is like a pendulum, right?)
 - A metronome (used to keep time for musicians)
 - A mass-spring system (like the shocks on your car)

2nd Semester Inquiry Review Answer Key

Marco Cascella



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New Digital Technology in Education Wan Ng, 2015-04-25 This book addresses the issues confronting educators in the integration of digital technologies into their teaching and their students learning Such issues include a skepticism of the added value of technology to educational learning outcomes the perception of the requirement to keep up with the fast pace of technological innovation a lack of knowledge of affordable educational digital tools and a lack of understanding of pedagogical strategies to embrace digital technologies in their teaching This book presents theoretical perspectives of learning and teaching today's digital students with technology and propose a pragmatic and sustainable framework for teachers professional learning to embed digital technologies into their repertoire of teaching strategies in a systematic coherent and comfortable manner so that technology integration becomes an almost effortless pedagogy in their day to day teaching The materials in this book are comprised of original and innovative contributions including empirical data to existing scholarship in this field Examples of pedagogical possibilities that are both new and currently practised across a range of teaching contexts are featured

University Teaching in Focus Lynne Hunt, Denise Chalmers, 2021-06-21 The second edition of University Teaching in Focus distils the knowledge and insights of internationally acclaimed experts in university teaching It empowers university teachers and contributes to their career success by developing their teaching skills strategies and knowledge Written in a clear and accessible style it provides a sharp focus on student learning through the lens of four sections Focus on subject and curriculum design Focus on subject teaching and learning Focus on students Focus on your career Each of the 15 chapters targets a key teaching and learning issue referencing seminal works current resources and practical applications using real world cases The Your thoughts sections encourage reflection and offer opportunities to adapt international evidence about best practice to local contexts and disciplines This edition will be a key resource for foundational teaching development programs in higher education institutions or as a self help manual by early career and experienced teachers who wish to enhance their students learning

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The School Review, 1919

Beginning Qualitative Research Pamela Maykut, Richard Morehouse, 2002-11-01 The authors have focused this book on

the serious beginning qualitative researcher theoretically rigorous yet with an understandable perspective The book has three main features First it provides a strong theoretical base for the understanding of competing research paradigms Secondly it features a methods section consistent with the non linear nature of naturalistic inquiry yet it allows the beginner to see direction Thirdly the authors include examples of actual research studies conducted and completed in a single year

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