

# Waves, sound and light

## Summary

### 1 Transverse pulses and waves

#### 1.1 Properties of transverse pulses and waves

- A pulse is a single disturbance in a medium. A single crest is a transverse pulse. A single trough is also a transverse pulse.
- In a transverse pulse or wave, the particles of the medium vibrate at  $90^\circ$  to the direction in which the pulse or wave moves.
- The amplitude of a pulse is the maximum displacement from the position of rest of a particle in the medium.
- A wave is made up of one pulse after another.
- The 'hump' in a transverse wave is called a crest.
- The 'hollow' in a transverse wave is called a trough.
- Continuous transverse waves are produced by continuous vibrations of the medium.
- A vibration is a regular to-and-fro movement (up-and-down or forwards-and-backwards).
- The rest position of a vibrating object (also called the equilibrium position) is the position that it would be in when not vibrating.
- One complete vibration (also called one oscillation) is one complete to-and-fro movement. It is the movement from the rest position to the furthest point in one direction, then to the furthest point in the opposite direction, then back to the rest position.
- One complete vibration (or one oscillation) of the end of a slinky spring will produce one wavelength in the spring.
- Particles in a medium are in phase if they are vibrating perfectly in step with one another.
- Particles in a medium that are not vibrating perfectly in step with one another are out of phase. Two particles are completely out of phase if they are moving oppositely, with one reaching the crest at the same instant that the other reaches the trough.

#### 1.2 Wavelength, frequency, amplitude, period, wave speed

- Wavelength ( $\lambda$ ) is the distance between two consecutive points that are in phase. For transverse waves, wavelength is the distance between two successive crests or two successive troughs. The unit is metres (m). If the wavelength is given in any other unit (for instance, mm or nm), it must be converted to metres when doing a calculation.
- Frequency ( $f$ ) is the number of wavelengths passing per second. It equals the frequency of the vibration making the waves. The unit is  $s^{-1}$  (per second).  $1 s^{-1}$  is called a hertz (Hz).
- The amplitude of a wave is the maximum distance that a point in a wave moves from its rest position. This equals the distance from the rest position to the top of a crest or to the bottom of a trough. The unit is metres (m).

# Physical Science Chapter 10 Sound Notes Section 1 The

**Lingjun Ying**



**Physical Science Chapter 10 Sound Notes Section 1 The:**

Physical Science Chapter 10 Sound Notes Section 1 The: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthraling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Physical Science Chapter 10 Sound Notes Section 1 The : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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