



Light: Ray or wave?

How will we determine the nature of light?

Let's learn about the behaviour of waves and see if what we learn fits what we see!



Claim

Light is a wave.



Evidence

It behaves like another wave – the water wave: it diffracts, polarisation and refracts.



Reasoning

Put in: We can experiment and test our hypothesis: does light behave like waves? Can what theory explain observed phenomena regarding light?

1. Describe the motivation for comparing water waves to light waves:

- If the light is a wave, any general rule we describe by studying what we know about water waves should be observable with light. This analogy gives us a practical test. If all waves do X and light does X, then we can deduce that light is a wave.

2. What is oscillation?

Oscillation is a fluctuation around a central point.

3. What is polarization?

Polarization is the ability of an external factor to block the wave's transmission.

4. What is diffraction?

When a wave travelling through its medium encounters a small passage – a slit.

5. What is interference?

When one wave "hits" another wave, "superposition" occurs. Waves can double their amplitude or cancel each other out depending on the momentary properties of the two waves that hit each other.

6. compare water waves to light waves

| Experiment that demonstrates | Water Waves | Light Waves |
|------------------------------|-------------|-------------|
| | | |

Optics The Study Of Light Answers Key

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This book contains the important study material for revision before examination **Optics in Our Time** Mohammad D. Al-Amri, Mohamed El-Gomati, M. Suhail Zubairy, 2016-12-12 Light and light based technologies have played an important role in transforming our lives via scientific contributions spanned over thousands of years In this book we present a vast collection of articles on various aspects of light and its applications in the contemporary world at a popular or semi popular level These articles are written by the world authorities in their respective fields This is therefore a rare volume where the world experts have come together to present the developments in this most important field of science in an almost pedagogical manner This volume covers five aspects related to light The first presents two articles one on the history of the nature of light and the other on the scientific achievements of Ibn Haitham Alhazen who is broadly considered the father of modern optics These are then followed by an article on ultrafast phenomena and the invisible world The third part includes papers on specific sources of light the discoveries of which have revolutionized optical technologies in our lifetime They discuss the nature and the characteristics of lasers Solid state lighting based on the Light Emitting Diode LED technology and finally modern electron optics and its relationship to the Muslim golden age in science The book s fourth part discusses various applications of optics and light in today s world including biophotonics art optical communication nanotechnology the eye as an optical instrument remote sensing and optics in medicine In turn the last part focuses on quantum optics a modern field that grew out of the interaction of light and matter Topics addressed include atom optics slow stored and stationary light optical tests of the foundation of physics quantum mechanical properties of light fields carrying orbital angular momentum quantum communication and Wave Particle dualism in action **Class 10 Physics Questions and Answers**

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Optics, Astronomy and Logic

A.I. Sabra, 2024-12-11 Running through the articles in this volume is the theme of the appropriation and subsequent naturalization of Greek science by scholars in the world of medieval Islam The opening paper presents the historiography of this process and the focus is then placed on Ibn al Haytham one of the most original and influential figures of the 11th century and in particular in his contribution to the science of optics both mathematical and experimental and the psychology of vision Professor Sabra then continues the analysis of how Greek thought was developed in the Islamic world with two studies of work based on Euclid's geometry and two on critiques of Ptolemaic astronomy The final articles turn specifically to questions in the history of logic Aristotelian syllogism and Avicenna's views on the subject matter of logic

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Optics and Machine Vision for Marine Observation Hong Song,Ran Liao,Rizwan Ali Naqvi,Surui Xie,2023-10-13

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been coined Today these fields are flourishing and have become areas of specialisation for many science and engineering students and numerous research workers and engineers throughout the world Some of the advances in these fields have been recognized by awarding Nobel prizes to seven physicists in the last twenty years The volumes in this series which have appeared up to now contain nearly 190 review articles by distinguished research workers which have become permanent records for many important developments They have helped optical scientists and optical engineers to stay abreast of their fields There is no sign that developments in optics are slowing down or becoming less interesting We confidently expect that just like their predecessors future volumes of Progress in Optics will faithfully record the most important advances that are being made in optics and related fields

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