

PHYSICS INVESTIGATORY PROJECT ON HOLLOW PRISM CLASS 12

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Which is the best topic for physics project class 12?

How to do a hollow prism experiment? Here the experiment is done in two steps; first we find the angle of the prism and secondly we find the angle of minimum deviation. Clean the hollow glass prism and fill it with the given transparent liquid. The refractive index is to be found out. Wipe it dry from outside and see that there are air bubbles inside.

What was the conclusion of the hollow prism experiment? A hollow glass prism does not give any spectrum because this simple deviation of light takes place parallel to the incident ray like in a glass slab. In cases other than glass, a hollow prism can be used to determine the angle of minimum deviation.

How do you do a prism experiment in Class 12?

Which is most hardest topic in physics?

How to make a physics investigatory project?

What is a hollow prism used for? Thus, a hollow prism is also commonly called as a fluid prism. This prism is a well-known tool used for determination of refractive index of fluid and normally made from a high-quality glass for obtaining highly accurate estimation.

Why there is no refraction in hollow prism? Reason : Because refractive index of air inside and outside the prism is same so no refraction and hence no deviation will take place.

Can a hollow prism produce a spectrum? A beam of white light when passed through a hollow prism, cannot give spectrum.

What happens when light passes through a hollow prism? In the question, the light passes through a hollow prism, so the refractive index inside the prism is the same as that outside the prism. This means that refraction does not take place and hence there is no splitting up of white light.

What is the purpose of the prism experiment? He was fascinated by the phenomena of refraction of sunlight in its constituent colours by a prism. The prism causes the light to slow down. It is due to a change in the medium of propagation which leads to bends in its path by the phenomena of refraction.

What is the principle of the prism experiment? Principle. Light changes speed as it moves from one medium to another (for example, from air into the glass of the prism). This speed change causes the light to be refracted and to enter the new medium at a different angle (Huygens principle).

What materials are required for the prism experiment? Materials required: Prism, piece of white chart of size 20 x 20 cm, pencil, pins, scale and protractor. PROCEDURE: Take a prism and place it on the white chart in such a way that the triangular base of the prism is on the chart.

How does a prism work physics? As light passes through a prism, it is bent, or refracted, by the angles and plane faces of the prism and each wavelength of light is refracted by a slightly different amount. Violet has the highest frequency and is refracted the most. Red has the lowest frequency and is refracted the least.

What are the sources of error in the prism experiment?

What is the toughest chapter in physics 12th? The toughest chapters in CBSE Class 12 Physics are Quantum Mechanics, Electromagnetic Induction, Faraday's Law, Nuclear Physics, Structure and Reactions, Semiconductors, Devices and Circuits, and Communication Systems, Signal Processing.

Which is the toughest branch of physics? The area of physics which I think is the most difficult is quantum field theory (QFT). To begin with, the prerequisite to even

begin studying it are very high (advanced quantum mechanics & special relativity for sure, plus various advanced maths topics; see What are the prerequisites to study quantum field theory?).

What is the easiest topic in physics?

Which is the easiest investigatory project class 12?

What is the best project for physics?

What should I do in an investigatory project? It involves researching a topic, formulating a working theory (or hypothesis) that can be tested, conducting the experiment, and recording and reporting the results. You will probably need to follow this procedure if you are planning to enter a project in a school science fair, for instance.

Why there is no dispersion in hollow prism? All the colours travel with the same speed in the air inside a hollow prism. Under such circumstances, no dispersion can occur.

Is A prism Hollow or solid? Prism is a solid geometric figure whose two end faces are similar, equal, and parallel rectilinear figures, and whose sides are parallelograms. Glass is one of the materials with which they are made.

Why is a prism better than a mirror? The advantage of using a right angle prism as a reflector rather than a plain mirror is that the efficiency of reflecting surface of a right angle prism is 100 percent as total internal reflection occurs in the prism. In case of a plane mirror, there would be some absorption of energy and hence efficiency will be less.

What are the most important topics in physics class 12?

Which topic is best in physics?

Which is the easiest topic in physics class 12? The easiest chapters in CBSE Class 12 Physics are Electric Charges and Fields, Current Electricity, Magnetic Effects of Current and Magnetism, Ray Optics, and Atoms and Nuclei.

What are the best science fair projects for 12th grade?

What is the toughest chapter in physics 12th? The toughest chapters in CBSE Class 12 Physics are Quantum Mechanics, Electromagnetic Induction, Faraday's Law, Nuclear Physics, Structure and Reactions, Semiconductors, Devices and Circuits, and Communication Systems, Signal Processing.

Which is the most scoring chapter in class 12 physics? The chapters with the most weightage this year are Electrostatics, Current Electricity, Electromagnetic Waves, and Optics. Which is the biggest chapter in Physics class 12? Optics is the biggest unit of Class 12th Physics. More than ten marks questions will appear from this unit in the examination.

What are 4 topics commonly studied in physics? Some of the topics in physics that are common in most fields include thermodynamics, Newton's laws, relativity theory, quantum mechanics, optics, and electricity and magnetism.

What is the hardest thing to study in physics? Quantum Physics Courses Quantum Physics requires mathematical, computer science, and quantum lingo skills. It is about studying atoms and particles at the very basic level and applying the theories in the real world. Of all scientific courses, Quantum Physics has been credited as the toughest course in the world.

What is the most powerful in physics? As suggested by its name, the strong force is the strongest of the fundamental forces. It is about 100 times stronger than electromagnetism and 100 trillion trillion trillion times stronger than gravity. However, the strong force only has influence over very, very small distances.

Is physics the hardest class? While difficulty is subjective, physics is often considered one of the harder majors due to the advanced mathematics and abstract concepts involved.

Which is the toughest subject in class 12? Mathematics is the most difficult among all optional subjects on the CBSE board, but on the other hand, there are various subjects in it. Most of the top require mathematics in commerce, and even the basic knowledge of mathematics is almost required in every field.

What is the hardest chapter of class 12 physics quora? Thermodynamics. (Difficult at first , involves too much concepts - What makes it harder is the confusion

yo develop while studying thermodynamics in Chemistry)

What is the toughest chapter in class 12 biology? What are the toughest chapters in CBSE Class 12 Biology? The toughest chapters include Molecular Basis of Inheritance, Principles of Inheritance and Variation, Biotechnology: Principles and Processes, Human Health and Disease, and Evolution.

What is the best project for physics?

What is the most interesting science fair project?

What not to do on a science fair project? Scientific fraud and misconduct are not condoned at any level of research or competition. This includes plagiarism, forgery, use or presentation of other researcher's work as one's own and fabrication of data. Fraudulent projects will fail to qualify for competition in GSDSEF and subsequent affiliated fairs.

WordPress Plugin Tutorial for Beginners: Step-by-Step Guide

Q1: What is a WordPress plugin?

A1: A WordPress plugin is a software module that adds functionality to your WordPress website. Plugins can extend your site's capabilities, from adding new features like contact forms or e-commerce to improving security or optimizing performance.

Q2: Where do I find and install plugins?

A2: You can find free and premium plugins in the WordPress Plugin Directory or from third-party marketplaces. To install a plugin, go to your WordPress dashboard, navigate to "Plugins" > "Add New," search for the plugin you want, and click "Install Now."

Q3: How do I activate and configure a plugin?

A3: After installing a plugin, you need to activate it by clicking the "Activate" button. Once activated, you can usually find configuration options under "Settings" in your dashboard. Consult the plugin's documentation or follow the on-screen instructions for specific configuration steps.

Q4: How do I troubleshoot plugin errors?

A4: If a plugin is not working properly, try deactivating it and reactivating it. If that doesn't solve the issue, deactivate all other plugins and see if the error persists. Check your plugin's documentation for specific error codes or contact the plugin developer for support.

Q5: What are some tips for using plugins effectively?

A5: *Install only the plugins you need to avoid cluttering your site.* Check plugin compatibility with your WordPress version and active plugins. *Keep plugins updated to ensure security and bug fixes.* Use a plugin management tool to monitor and manage your plugins. * Seek support from the plugin developer or WordPress community for any issues.

Shriver and Atkins Inorganic Chemistry 5th Edition: Questions and Answers

1. What is the electron configuration of the vanadium(IV) ion?

Answer: $[\text{Ar}]3d^14s^2$

2. Explain the difference between a ligand and a chelate.

Answer: A ligand is a molecule that donates electron pairs to a metal ion to form a coordination complex. A chelate is a ligand that forms multiple bonds to a metal ion, creating a ring structure.

3. Describe the mechanism of the Friedel-Crafts alkylation reaction.

Answer: The Friedel-Crafts alkylation reaction is an electrophilic aromatic substitution reaction that involves the addition of an alkyl group to an aromatic ring. The reaction is catalyzed by a Lewis acid, such as aluminum chloride. The alkyl group is generated by the reaction of an alkyl halide with the Lewis acid.

4. What is the difference between a homoatomic and a heteroatomic molecule?

Answer: A homoatomic molecule is composed of atoms of the same element, while a heteroatomic molecule is composed of atoms of different elements.

5. Explain the concept of chirality.

Answer: Chirality is a property of an object that cannot be superimposed on its mirror image. In inorganic chemistry, chirality is often associated with molecules that have tetrahedral or octahedral symmetry.

The Shotokan Karate Bible 2nd Edition: Beginner to Black Belt

A Comprehensive Guide

The Shotokan Karate Bible 2nd Edition is a comprehensive guide to the art of Shotokan karate. Written by expert martial artist Iain Abernethy, this book provides a detailed explanation of all aspects of Shotokan karate, from basic techniques to advanced kata.

Questions and Answers

Q: What is Shotokan karate? A: Shotokan karate is a traditional Japanese martial art founded by Gichin Funakoshi in the early 20th century. It is characterized by its long, powerful stances, dynamic techniques, and emphasis on speed and accuracy.

Q: Who is the author of the Shotokan Karate Bible 2nd Edition? A: The book was written by Iain Abernethy, a world-renowned Shotokan karate expert and author of other acclaimed martial arts books.

Q: What topics are covered in the book? A: The book covers a wide range of topics, including:

- Basic techniques: Stances, blocks, strikes, and kicks
- Advanced kata: Detailed breakdowns of all 26 official kata
- Kumite (sparring): Techniques, strategies, and rules
- History and philosophy of Shotokan karate

Q: Who is the book suitable for? A: The book is suitable for both beginners and experienced practitioners. Beginners will find it an invaluable resource for learning the fundamentals, while experienced practitioners will appreciate its in-depth coverage of advanced techniques and kata.

Q: Where can I find the book? A: The Shotokan Karate Bible 2nd Edition can be purchased at most bookstores and online retailers. It is also available in digital format for e-readers.

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