
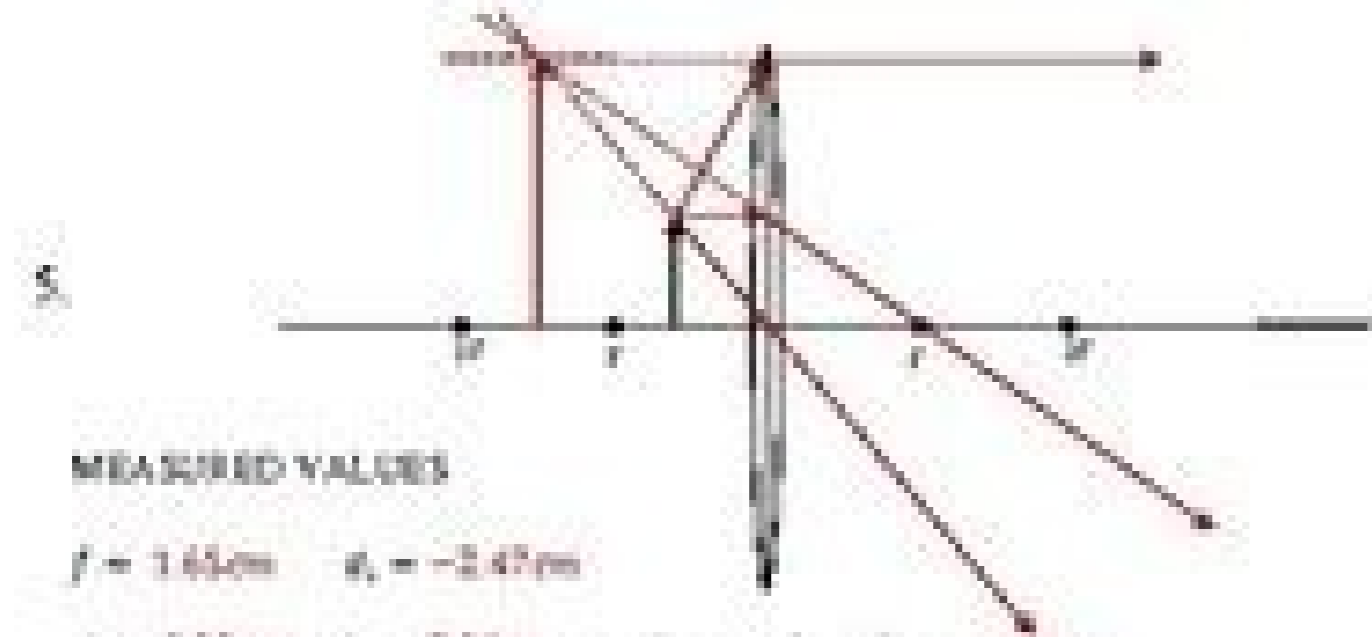


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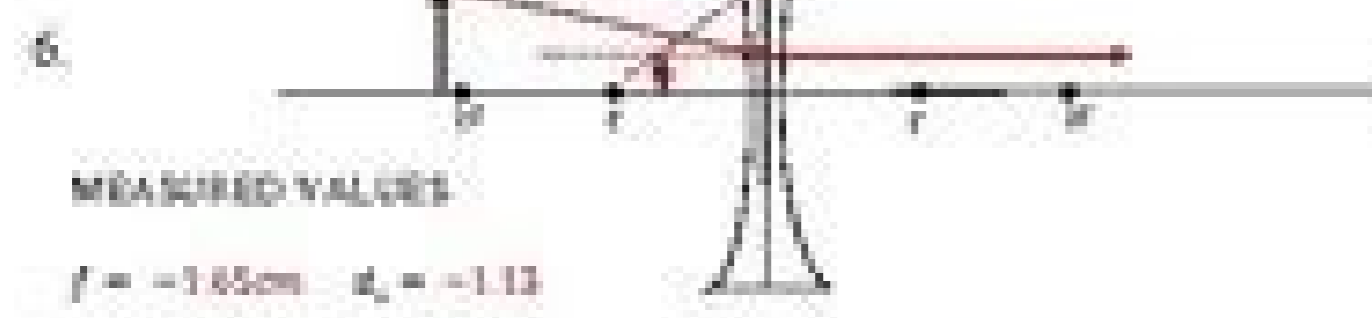
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4.
 MEASURED VALUES
 $f = 1.65\text{cm}$ $u_1 = \infty$
 $u_2 = 1.65\text{cm}$ $v_1 = \infty$ image orientation = upright
 $u_3 = 0.85\text{cm}$ $m = \infty$ type of image = virtual

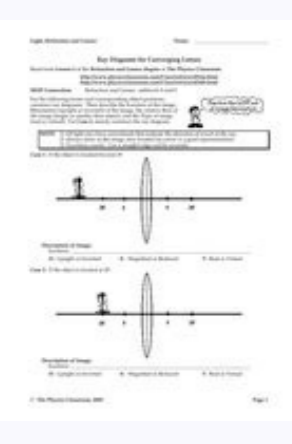


5.
 MEASURED VALUES
 $f = 1.65\text{cm}$ $u_1 = -2.47\text{cm}$
 $u_2 = 0.99\text{cm}$ $v_1 = 2.96\text{cm}$ image orientation = inverted
 $u_3 = 1.19\text{cm}$ $m = 2.69$ type of image = real



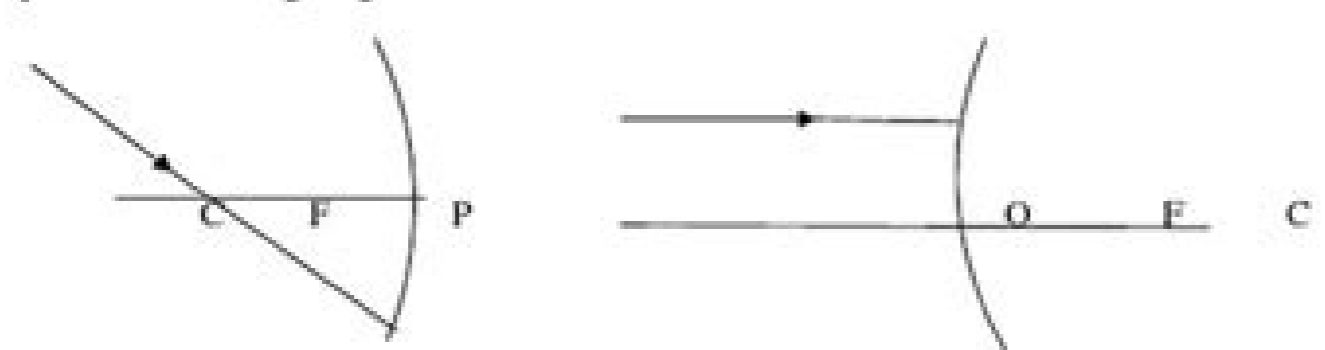
6.
 MEASURED VALUES
 $f = -1.65\text{cm}$ $u_1 = -1.13$
 $u_2 = 3.26\text{cm}$ $v_1 = 0.61\text{cm}$ image orientation = upright
 $u_3 = 1.19\text{cm}$ $m = 0.22$ type of image = virtual

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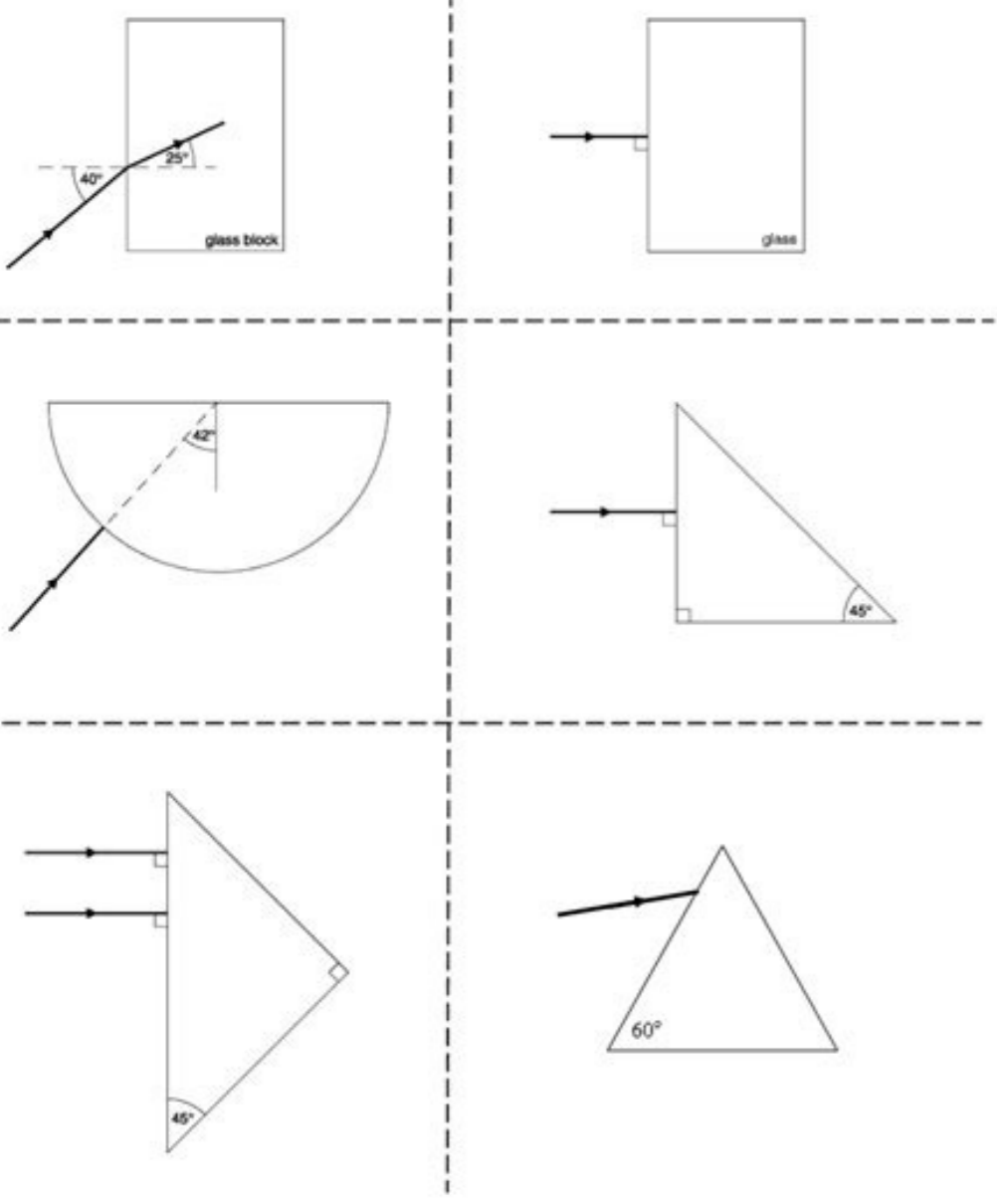
Class: X Physics Assignment 4 Chapter: Light-Reflection and Refraction

1. What is light? What is its nature?
2. What is the speed of light in vacuum?
3. What is a mirror?
4. What is the focal length of a plane mirror?
5. Differentiate between real and virtual image.
6. What type of image is formed on a cinema screen?
7. A concave mirror is a part of sphere of radius 40 cm. What is the focal length of the mirror?
8. Radius of curvature of a mirror is 20 cm. What type of mirror is it?
9. Magnification of a mirror is +2/3. What type of mirror is it?
10. Complete the following diagrams:-

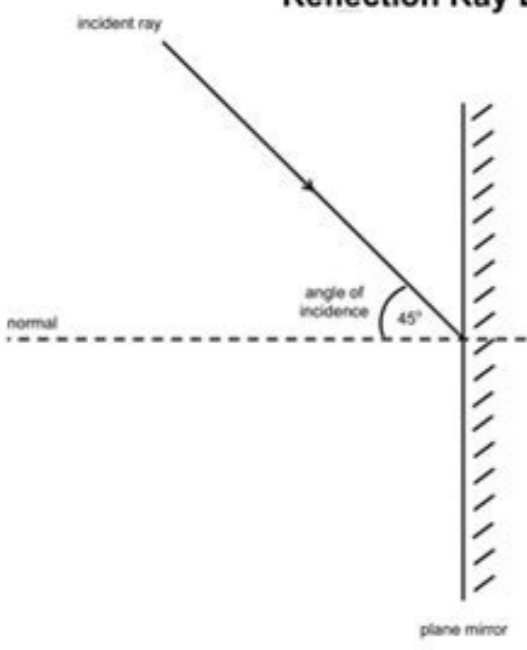


11. Magnification of a mirror is '-1'. What type of mirror is it? What is the position of object and image? Give the nature of image.
12. Name the type of mirror used:-
 - (i) as a reflector in search light
 - (ii) as side view mirror in vehicles.
 - (iii) by the dentist
 - (iv) as a shaving mirror
13. Wherever you may stand in front of mirror, your image is always erect & same sized, what type of mirror is it?
14. (a) A ray of light strikes the mirror at an angle of 20° . What is the angle of reflection?
 (b) Give the angle of incidence and reflection for normal incidence.
15. A candle is kept in front of plane mirror at distance of 15 cm. What is distance between candle & its image?
16. Radius of curvature of a mirror is +24cm. Name the kind of mirror and give the characteristics of the image formed by it.
17. Define refraction.
18. State the laws of refraction.
19. How does the lateral displacement depend upon:- (a) Thickness of the glass slab. (b) Angle of incidence
20. What is the lateral displacement when a ray of light falls normally on a glass slab?
21. Refractive index of water with respect to air is 1.33, what is refractive index of air with respect to water?
22. Under what condition, the angle of refraction will be equal to the angle of incidence?
23. Refractive index of glass is 1.65, what is the speed of light in glass?
24. If refractive indices of alcohol & water are 1.36 and 1.33 respectively, which of the two is optically denser?

Use a ruler and pencil to complete these ray diagrams:



Reflection Ray Diagram



- The Task:**
- 1) Align the mirror with the line labelled 'plane mirror'.
 - 2) Move the ray box so that the ray of light travels along the path labelled 'incident ray'.
 - 3) Using a ruler, draw the path of the reflected ray and label it.
 - 4) Use a protractor to measure the angle of reflection - the angle between the reflected ray and the normal. Label the angle of reflection on your diagram.
 - 5) Repeat the experiment but this time adjust the ray box so that you have a different angle of incidence.
- The Question:**
- What is the relationship between the angle of incidence and the angle of reflection?
- _____
- _____

air to water, water to air). This would affect the direction of the runner because the runner would try to run forward, but the runner would end up slipping and most likely falling backwards. Chapter 18 Updated Textbook Skip Navigation HomeSite pagesCoursesOnline Learning ResourcesScienceModern LanguagesArtsLit & WritingMathSocial Studies & HistoryComputing, Career, and Tech Ed High School Magic trick? Under Showlines, turn off the Central line and the Line through focalpoint so that only the Parallel line is showing.1. The blue dots in front of and behind the lens are the focal points of the lens. Find out the answer in the how does this experiment work section below. What happens to the wavelength of the wave as it passes into Medium 2? Refraction is the bending of light. What do you noticeReproduction for educational use only. Step 2 Fill a glass with water. The light rays are bent by refraction as theypass through the lens and form a focused image to the rightof the lens.To begin, turn on the Colorize lines checkbox. Step 3 Slowly lower the piece of paper behind the glass of water. Exploring light refraction couldn't be easier or more fun, simply preview the experiment with our demonstration video below and find an easy to understand explanation of how it works below. Refraction occurs when light travels from one medium to another (ie. As with a runner on pavement or sand, the speed of light can change when it moves into a different medium. She wants to use the glass to focussunlight and start a fire. Light refracts as it passes from one medium to the next because it travels at different speeds through those mediums. How would this affect the direction of the runners? Step 4 Look through the glass of water and watch what happens. Rainbow Rainbows are formed when the rays of sunlight bend (refract) when they travel through rain drops. The jogger who was running in the water probably slow Here are some printed instructions; part of glass marker paper is a sheet of paper and draw two arrows over it. The Gizmotm Refraction allows you to observe what happens to a beam of light while traveling from one middle to another. C  meras   A C    mere works because the lens causes light rays to refraine. More experiments that show the refractive of the light of the experiment of the science of light    "Watch how the straw seems to be folded in this experiment that shows the refractive in the O.    2020 ExplorelearningTM All rights reserved you are reading a free visualization page 3 is not shown in this view. A arrow near the top and an arrow near the bottom. Explain. Answer the EPROMPTS questions in orange boxes. Vocabulary: Crana Lens, convex lens, focal point, image, expansion, actual image, refractions, virtual image questions pronounces of knowledge (they do these before using the charts.) Agnes It is attached to a desert island with nothing high of a glass of expansion. Name: Emmalia Miller Date: 5/1/18 Student Exploration: Vocabulary Refraision: Incidence, a refractions, frequency, refractions of refractions, The day, day, refractions, snell's law, total internal reflection, wave front, wavelength, wave speed questions for knowledge (do these before using the chart.) Two corridors ran side by side, each holding one end of a horizontal pion. Wave length has still changed in a 90 -degree student Exploration: Ray Tracing (lenses) Directions: Follow the instructions to go through the simulation. Public sharing or prohibited publication. The children (and adults) are in amazement and scratching their heads asking what makes the arrow in this experiment change direction before your eyes! The secret is the refractive of light. 2. glasses or contacts in ways that help people improve their vision. What happens with the speed of the light wave? A. Make the arrows point insame direction. It holds the glass above the grass, as shown on the right. In the diagram, draw the path that solar rays will probably touch from the magnifying glass to the grass. A magnifying glass is an example of a lens that curves out of both sides. Why is a convex lens useful for starting fires? Because the lenses can direct the light to a point, focus all the light there so that the point warms up, and it can catch fire. Gizmo Heating The ray tracking chalk (lenses) shows light rays passing through a lens. This means that the light folds once when it travels through the glass in the water and then folds again when traveling out of the glass and in the air. The direction of light turned a 90 degree angle. Move the candle. The light travels faster through the air, slightly slower through the water and even slower through the glass. Click play (). Notice the lightning as it passes from medium 1 to medium 2. The speed of the light wave remained the same B. Turn off the fronts of the wave. As a result, the paths of light cross and the image appears to be horizontally inverted (left/right). The wavelength of a wave is the distance between the wave fronts. Click Play. The bending of the lightning you see is called refraction. Click Reset () and turn on the display wave fronts. Video Tutorial Light Science Refraction Step by step experiment Video of the scientific experiment works the scientific concept that is in action in this experiment is called refraction. A wave front is an imaginary line that connects the crests or curls of a wave. No, but the results of this experiment are quite surprising. Set the refractive index 2 to 3.0. 1. What would probably happen if one of the corridors started running in water to the knees? Examples of Light Refraction The following are examples of refraction that occur whenaround. Make the arrows point in the same direction. 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