

# PHYSICAL Science

AGS



## Lesson 6

## Bending Light

### Objectives

After reading this lesson, you should be able to

- explain how light is refracted.
- describe how concave and convex lenses reflect light.
- explain how lenses in eyeglasses can correct vision.

### Refraction

The bending of a light ray as it moves from one material to another

### Lens

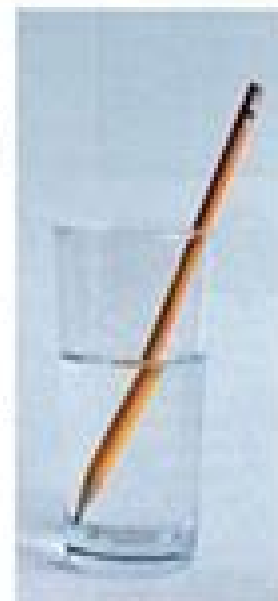
A curved piece of clear material that reflects light waves

### Concave lens

A lens that is thin in the middle and thick at the edges

When light moves from one kind of matter to another, the light waves change speed. As a result, the direction of the light changes. The bending of a light wave as it moves from one material to another is called **refraction**.

Notice that the pencil in the photo appears to be bent. Light travels more slowly in water than it does in air. When light passes from the water to the air, the light waves change speed and change direction. As a result, the pencil seems to bend.



Refraction causes the pencil to look like it is bent.

### Lenses

A lens bends light by acting like the water in the container.

A lens is a curved piece of glass or other clear material that

refracts light waves that pass through it. Lenses are used in eyeglasses, cameras, magnifying glasses, microscopes, and telescopes. What you see through a lens depends on the kind of lens you use.

A concave lens curves inward. Look at Figure A. The lens is thin in the middle and thick at the edges. Light rays that pass through a concave lens are spread apart.

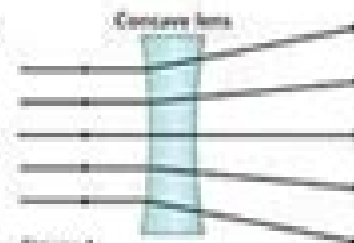


Figure A

# Test Physical Science Aqs

**Robert H. Marshall, Donald H. Jacobs**



## Test Physical Science Ags:

**AGS Physical Science** Robert H. Marshall, Donald H. Jacobs, 2001 *CSE Secondary School Test Evaluations: Grades 11 and 12* University of California, Los Angeles. Center for the Study of Evaluation, 1974 **AGS Physical Science** Robert H. Marshall, Donald H. Jacobs, 1997 Blackline Master Community Connection Diagrams Mastery Tests Self study guide Workbook **CSE Secondary School Test Evaluations: Grades 7 and 8** University of California, Los Angeles. Center for the Study of Evaluation, 1974 *Chemical news and Journal of physical science*, 1863 **Panel Reports** – "New Worlds, New Horizons in Astronomy and Astrophysics" National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Board on Physics and Astronomy, Committee for a Decadal Survey of Astronomy and Astrophysics, Program Prioritization Panels, Science Frontiers Panels, 2011-05-18 Every 10 years the National Research Council releases a survey of astronomy and astrophysics outlining priorities for the coming decade The most recent survey titled New Worlds New Horizons in Astronomy and Astrophysics provides overall priorities and recommendations for the field as a whole based on a broad and comprehensive examination of scientific opportunities infrastructure and organization in a national and international context Panel Reports New Worlds New Horizons in Astronomy and Astrophysics is a collection of reports each of which addresses a key sub area of the field prepared by specialists in that subarea and each of which played an important role in setting overall priorities for the field The collection published in a single volume includes the reports of the following panels Cosmology and Fundamental Physics Galaxies Across Cosmic Time The Galactic Neighborhood Stars and Stellar Evolution Planetary Systems and Star Formation Electromagnetic Observations from Space Optical and Infrared Astronomy from the Ground Particle Astrophysics and Gravitation Radio Millimeter and Submillimeter Astronomy from the Ground The Committee for a Decadal Survey of Astronomy and Astrophysics synthesized these reports in the preparation of its prioritized recommendations for the field as a whole These reports provide additional depth and detail in each of their respective areas Taken together they form an essential companion volume to New Worlds New Horizons A Decadal Survey of Astronomy and Astrophysics The book of panel reports will be useful to managers of programs of research in the field of astronomy and astrophysics the Congressional committees with jurisdiction over the agencies supporting this research the scientific community and the public *The Chemical News and Journal of Physical Science*, 1871 *Nuclear Science Abstracts*, 1974 **Peterson's Guide to Graduate Programs in the Physical Sciences and Mathematics**, 1991

High Energy Spin Physics Werner Meyer, Erhard Steffens, Werner Thiel, 2012-12-06 The 9th International Symposium on High Energy Spin Physics was held in Bonn 6-15 September 1990 with the Physikalisches Institut der Universität Bonn as the host The symposium was preceded by a series of four workshops on polarized electron sources and electron spin polarimeters Siberian snakes and polarization in circular machines polarized gas targets polarized solid targets 160 participants from 11 countries among them many young physicists came together and discussed mainly technological spin

problems The high level of participation indicates that workshops combined with the symposium are attractive not only for people who plan and prepare polarized beams and targets but also for experimentalists and theorists dealing with high energy spin physics At these workshops many very interesting and important recent results were presented and reviewed Thus we hope these proceedings will be valuable to many researchers in these fields The Organizing Committee would like to thank all participants in particular the speakers and the session chairmen for their contributions to the workshops and for helping to create a lively and stimulating atmosphere Special thanks go to the organizers W Haeberli S Mango E Reichert E Steffens W Thiel U Wienands for their cooperation in preparing and running these workshops We gratefully acknowledge the enthusiastic help of the members of our institute in preparing and running the conference and the workshops especially Mrs D FaSbender Mrs E Wendorf Mrs J Wetzels and Dr U Idschock

**Dependable Computing - EDCC-1** Klaus Echtle, Dieter Hammer, David Powell, 1994-09-21 This book presents the proceedings of the First European Dependable Computing Conference EDCC 1 held in Berlin Germany in October 1994 EDCC is the merger of two former European events on dependable computing The volume comprises 34 refereed full papers selected from 106 submissions The contributions address all current aspects of dependable computing and reflect the state of the art in dependable systems research and advanced applications among the topics covered are hardware and software reliability safety critical and secure systems fault tolerance and detection verification and validation formal methods hardware and software testing and parallel and distributed systems

**Space Studies Board Annual Report 2010** National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, 2011-01-01 The Space Studies Board SSB was established in 1958 to serve as the focus of the interests and responsibilities in space research for the National Academies The SSB provides an independent authoritative forum for information and advice on all aspects of space science and applications and it serves as the focal point within the National Academies for activities on space research It oversees advisory studies and program assessments facilitates international research coordination and promotes communications on space science and science policy between the research community the federal government and the interested public The SSB also serves as the U S National Committee for the International Council for Science Committee on Space Research COSPAR This volume reviews the organization activities and reports of the SSB for the year 2010

*Physical Science* Robert H. Marshall, Donald H. Jacobs, 1987-01-01

**An Assessment of U.S.-Based Electron-Ion Collider Science** National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on U.S.-Based Electron-Ion Collider Science Assessment, 2018-10-13 Understanding of protons and neutrons or nucleons the building blocks of atomic nuclei has advanced dramatically both theoretically and experimentally in the past half century A central goal of modern nuclear physics is to understand the structure of the proton and neutron directly from the dynamics of their quarks and gluons governed by the theory of their interactions quantum chromodynamics QCD and how nuclear

interactions between protons and neutrons emerge from these dynamics With deeper understanding of the quark gluon structure of matter scientists are poised to reach a deeper picture of these building blocks and atomic nuclei themselves as collective many body systems with new emergent behavior The development of a U S domestic electron ion collider EIC facility has the potential to answer questions that are central to completing an understanding of atoms and integral to the agenda of nuclear physics today This study assesses the merits and significance of the science that could be addressed by an EIC and its importance to nuclear physics in particular and to the physical sciences in general It evaluates the significance of the science that would be enabled by the construction of an EIC its benefits to U S leadership in nuclear physics and the benefits to other fields of science of a U S based EIC

*Ice-minus* United States. Congress. House. Committee on Science and Technology. Subcommittee on Investigations and Oversight,1986      **Directory of Federal Laboratory & Technology Resources** ,1993      *AEC Authorizing Legislation, Fiscal Year 1965* United States. Congress. Joint Committee on Atomic Energy. Subcommittee on Legislation,1964      **Energy and Water Development Appropriations for Fiscal Year 1997** United States. Congress. Senate. Committee on Appropriations. Subcommittee on Energy and Water Development,1997

**Proceedings of the National Science Council, Republic of China** ,1996      **High Energy Physics Index** ,1986

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