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10th PHYSICAL SCIENCE – WORKSHEETS

by Sri. P.Raghava Kumar

Refraction of Light at plane surfaces

WORK SHEET-3

Refraction of Light at plane surface

Check your understanding.

1. Refraction of light obeys _____ law
 - a) Faraday
 - b) Ampere
 - c) Snell
 - d) Hook
2. If the angle of incidence is equal to critical angle, then angle of refraction is _____
 - a) 60°
 - b) 70°
 - c) 80°
 - d) 90°
3. What happens if Angle of incidence is greater than critical angle____
 - a) Reflection, Refraction
 - b) Refraction
 - c) Total internal reflection
 - d) Refraction, total internal reflection.
4. Snell's law is expressed as ____
 - a) $\frac{n_1}{n_2} = \frac{v_2}{v_1}$
 - b) $\frac{n_1}{n_2} = \frac{v_1}{v_2}$
 - c) $\frac{n_1}{n_2} = \frac{\sin r}{\sin i}$
 - d) $\frac{n_1}{n_2} = \frac{\sin i}{\sin r}$
5. The principle involved in mirage formation ____
 - a) Reflection
 - b) Refraction
 - c) Total internal reflection
 - d) None
6. Which statement among the following is true. When light refracts through plane Rectangular glass slab.
 - a) $\angle i > \angle e$
 - b) $\angle i = \angle e$
 - c) $\angle i = \angle r$
 - d) $\angle i < \angle e$
7. Critical angle of Diamond is _____
 - a) 22.4°
 - b) 23.4°
 - c) 24.4°
 - d) 25.4°
8. If the angle of incidence increases. what happens to lateral shift?
 - a) Decreases
 - b) Increases
 - c) remains constant
 - d) First increases and then decreases

Physical Science 2paper Grade 10

Daniel F McAuley



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Resources in Education ,2000-10 **The Chemical News and Journal of Physical Science** ,1913 Chemical News and Journal of Physical Science ,1887 **The Education Gazette** Cape of Good Hope (South Africa). Education Department,1975 *Union Wages and Hours* Cora E. Taylor, Frank Shafer McElroy, Helen H. Ringe, Sol Swerdloff, Theresa R.

Shapiro, United States. Bureau of Labor Statistics, Abraham Bluestone, George Robertson McCormack, 1953 Research in Education ,1974 *Parliamentary Papers* Great Britain. Parliament. House of Commons, 1902 **Colorado School Journal** ,1895 **X-kit Fet G10 Mathematics** , *The Education Gazette of the Province of the Cape of Good Hope* Cape of Good Hope (South Africa). Education Department, 1924 **Books Related to Compensatory Education** ,1969 The Education Gazette of the Province of the Cape of Good Hope Cape of Good Hope (South Africa). Education Department, 1980 **New York State Education** ,1926 Message of the President of the United States Transmitting the Budget United States, United States. Bureau of the Budget, 1934 **The Budget of the United States Government** United States. Bureau of the Budget, 1940 **Message of the President of the United States Transmitting the Budget for the Service of the Fiscal Year Ending ...** United States, 1934 The Colorado School Journal Aaron Gove, Dorus Reuben Hatch, Harry McWhirter Barrett, Nathan B. Coy, Henry Burnside Smith, William Barnard Mooney, 1896 **Drum** ,2002

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