

## Section 11.2 – The Refraction of Light

1. Define Refraction
  - a. What is a medium?
  - b. What is refraction?
  - c. How does the speed of light relate to refraction?
  - d. Describe an example of refraction using Plexiglass.
2. Define Index of refraction
  - a. What is index referring to?
  - b. What do the numbers represent?
  - c. Write the formula and describe each variable.
  - d. Read sample problems 11.5 and 11.6
  - e. Complete questions on page 438
3. Describe the relationship between density, index of refraction and the normal
  - a. Copy figure 11.35
  - b. Describe what is happening in each scenario
4. How is dispersion related to refraction?
5. Describe Snell's Law by reading 441 and looking at Figure 11.38.
6. Look over Example problem 11.7 and 11.8
7. Complete questions 1-3 page 441 and 1-3 page 442
8. Explain with some detail how total internal reflection occurs.
9. Explain how a mirage occurs.