

# Unit 9: Optical Physics - Mirrors & Lenses

## Learning Targets

### 7. I can describe characteristics of images in plane, concave, and convex mirrors.

- A. I can state the Law of Reflection.
- B. I can define the following: object, image, real, virtual, focal point, center of curvature, and magnification.
- C. I can describe image formation using the Law of Reflection.



### 8. I can explain the refraction of light.

- A. I can demonstrate how light reacts when it crosses into a new medium.
- B. I can calculate the index of refraction and speed of light in a material.
- C. I can explain how a prism creates a rainbow and spreads the colors of visible light.



### 9. I can describe characteristics of images in concave and convex lenses.

- A. I can discuss image formation using the following terms: object, image, real, virtual, focal point, center of curvature, and magnification.
- B. I can explain how simple telescopes and microscopes are constructed using two convex lenses.

## Unit Assignment List



Date	What Are We Doing in Class?	Homework?	Reference?	Due?
4/29	♥Optical Instrument Pamphlet Project ♥Optical Physics Lingo	♥Pamphlet Project ♥Optical Vocabulary	♥Textbook Chapter 28	♥5/6 ♥5/3
4/30	♦The Law of Reflection	♦ ♦ ♦	♦	♦
5/1 d	♣ ♣	♣ ♣	♣ ♣	♣ ♣
5/2	♠	♠	♠	♠
5/3 d	♥ ♥	♥	♥	♥

