



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Student Exploration: Ray Tracing (Lenses)

**Background:** Lenses are made from transparent materials. They are used to focus light rays and to correct vision.

**Prior Knowledge:** Light rays travel in straight lines. Light rays can be reflected or refracted. Light rays can be focused or diverged. Light rays can be used to form images.

1. Draw a diagram showing light rays entering a lens and exiting a lens. Label the lens and the light rays.

2. Draw a diagram showing light rays entering a lens and exiting a lens. Label the lens and the light rays.

What is the difference between a converging lens and a diverging lens?

**Activity 1: Ray Tracing**

Ray tracing is a method for determining the path of light rays as they pass through a lens. Ray tracing can be used to determine the focal length of a lens and to determine the location of an image formed by a lens.

**Procedure:** Draw an object on the left side of the lens. Draw a ray from the top of the object through the center of the lens. Draw a ray from the top of the object parallel to the principal axis. Draw a ray from the top of the object through the focal point.

1. Draw a ray from the top of the object through the center of the lens. Label the ray and the focal point.

What is the difference between a converging lens and a diverging lens?

What is the difference between a converging lens and a diverging lens?

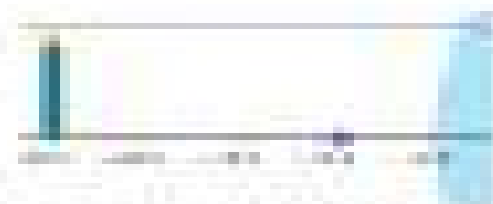
2. Draw a ray from the top of the object parallel to the principal axis. Label the ray and the focal point.

What is the difference between a converging lens and a diverging lens?

What is the difference between a converging lens and a diverging lens?

Ray 1: \_\_\_\_\_

Ray 2: \_\_\_\_\_



# Ray Tracing Lenses Answer Key

**Scott C. Dulebohn**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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