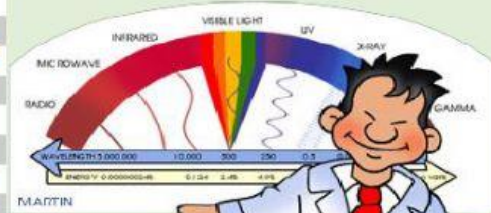




**SCIENCE**  
**CHAPTER 7- ENERGY**  
**LESSON 3- LIGHT LAB**  
**PART 2**



**Created by- Nisha Tanwar**

# REFRACTION

The bending of light as it moves from one type of matter to another

## PLEASE READ THIS

A *lens* is a tool that refracts light. A *concave* lens curves inward. Light bends outward from the center of the lens. The rays spread apart. Glasses that help you see faraway objects are made with concave lenses.

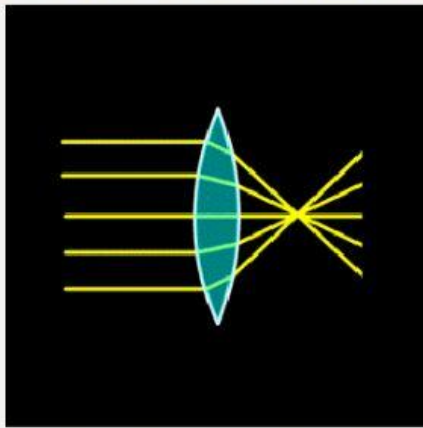
A *convex* lens bulges outward. Light rays bend inward toward its center. This makes objects near the lens seem bigger. Reading glasses have convex lenses.

# LENSES

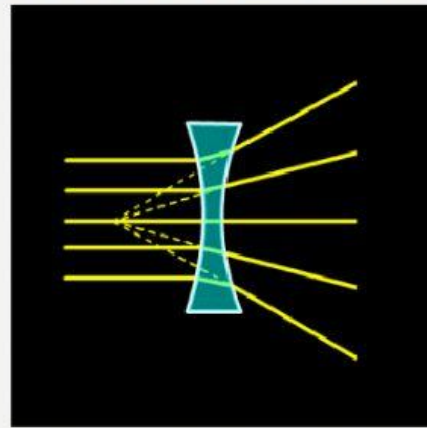
A lens is a tool that can bend light

- Concave lens- spread light out
- Convex lenses- brings light together

## CONVEX LENS



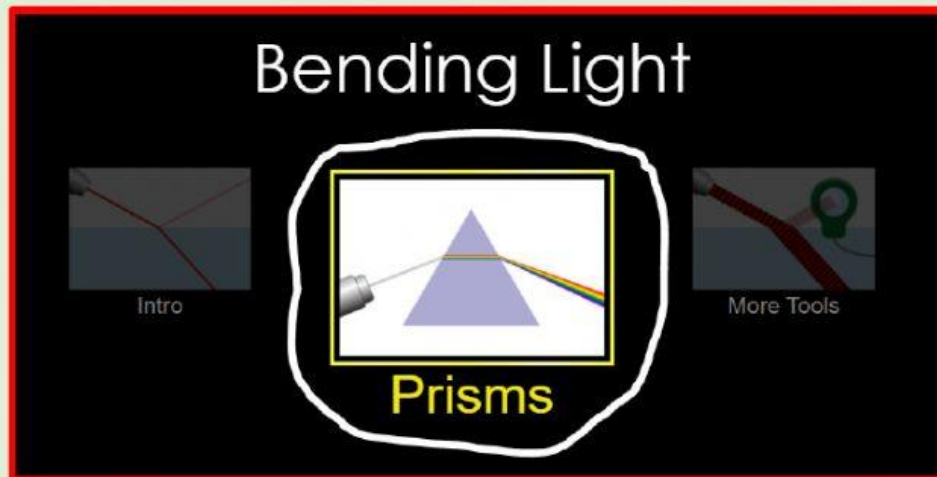
## CONCAVE LENS



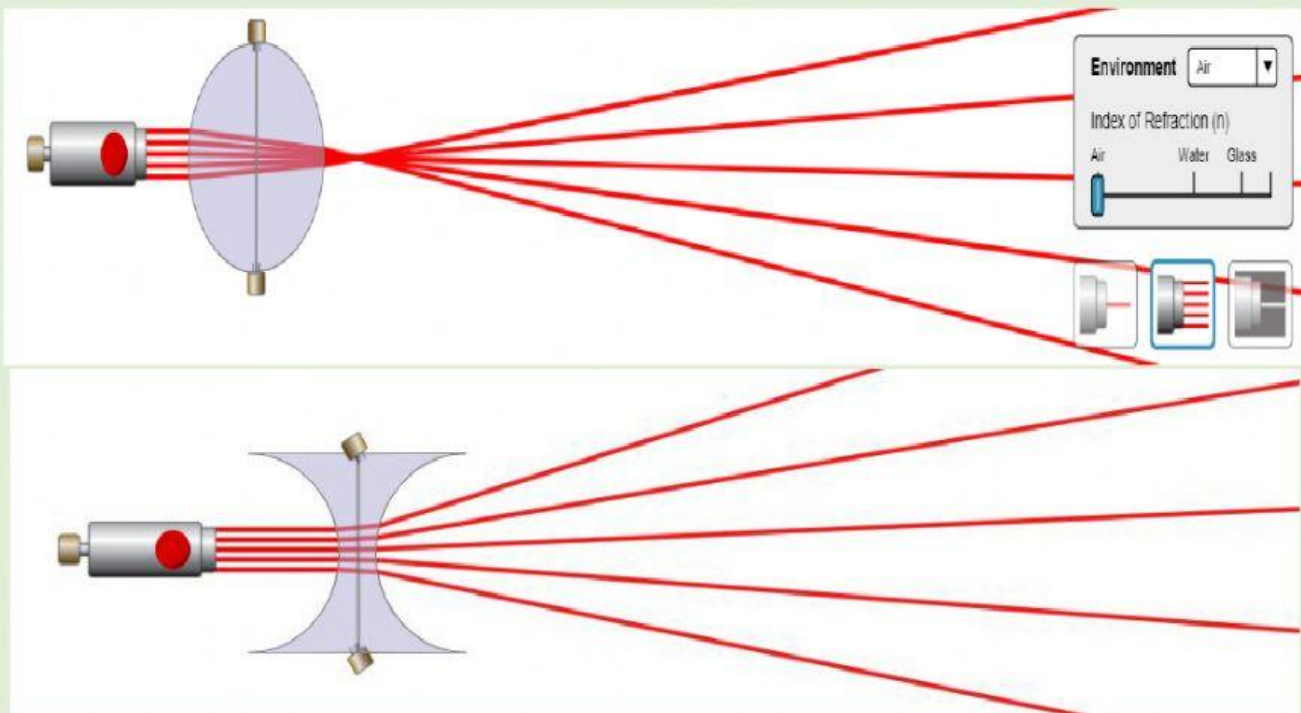


## STEPS ABOUT HOW TO USE LAB:

### 1. OPEN PRISMS IN THE PHET LAB



### 2. ARRANGE SHAPES TO MAKE CONVEX AND CONCAVE LENS



## LAB BASED QUESTIONS



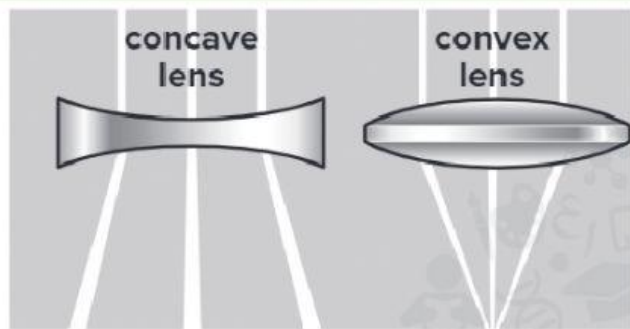
**CLICK ON**  
**YELLOW ICON**  
**TO OPEN**  
**VIRTUAL LAB**

1. \_\_\_\_\_ is the bending of light as it passes from one material to another.

2. A \_\_\_\_\_ lens curves inward.

3. A \_\_\_\_\_ lens curves outward.

5.



1. Which property of light does this diagram show?

- A** refraction
- B** absorption
- C** reflection
- D** translucence