



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.

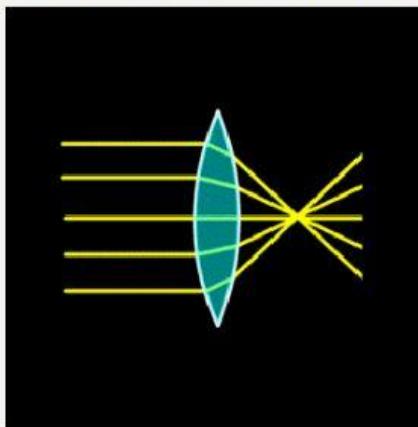
A *convex lens* bulges outward. Light rays bend inward toward its center. This makes objects near the lens seem bigger. Reading glasses have convex lenses.

LENSES

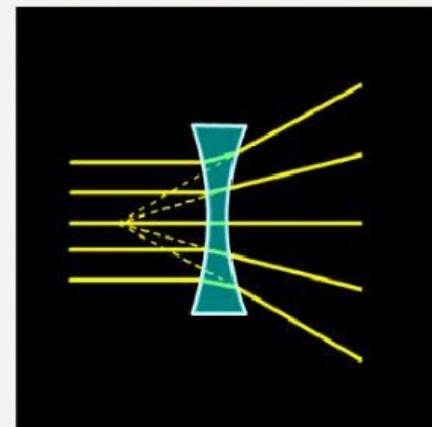
A lens is a tool that can **bend** light

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

CONVEX LENS

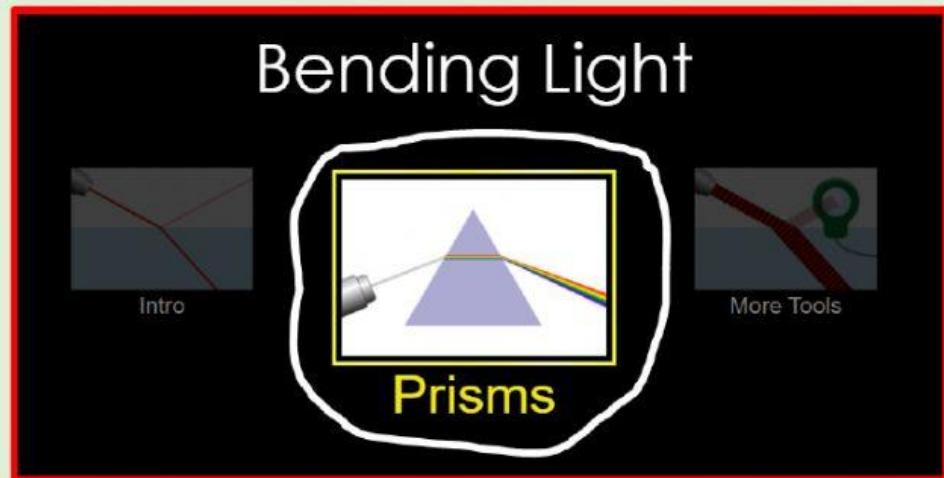


CONCAVE LENS

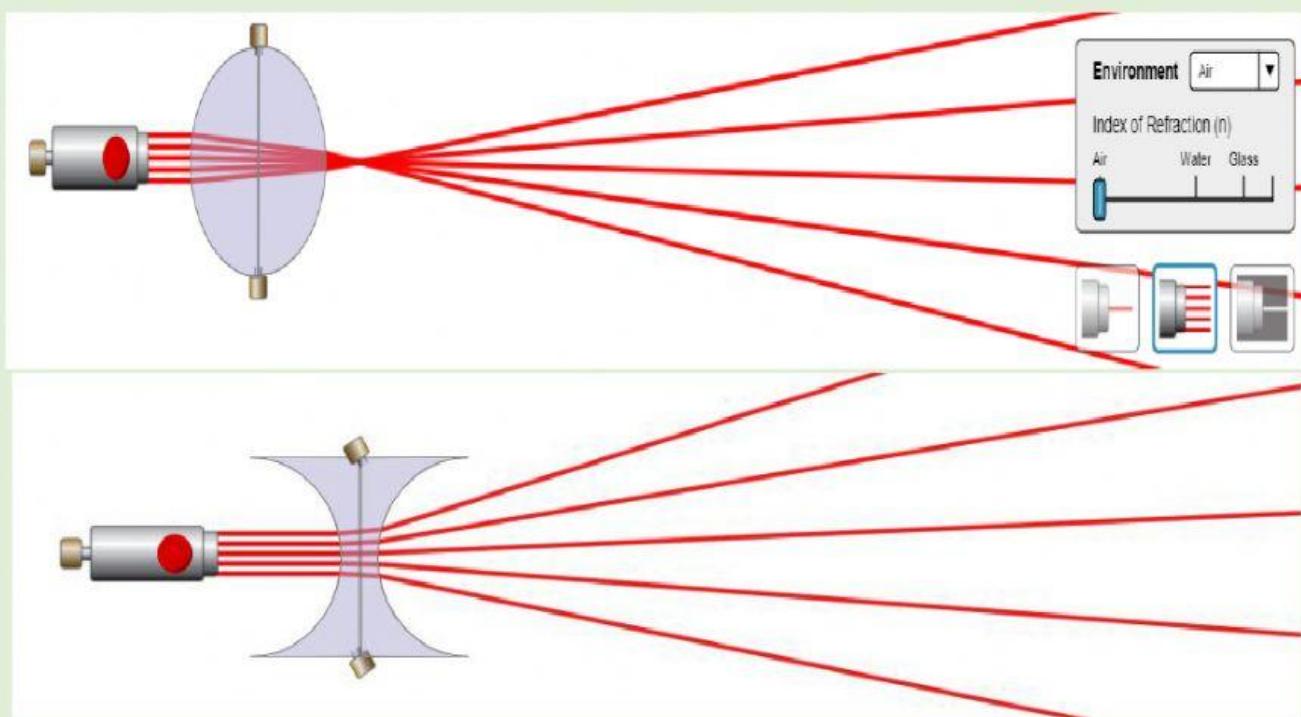


STEPS ABOUT HOW TO USE LAB:

1. OPEN PRISMS IN THE PHET LAB



2. ARRANGE SHAPES TO MAKE CONVEX AND CONCAVE LENS



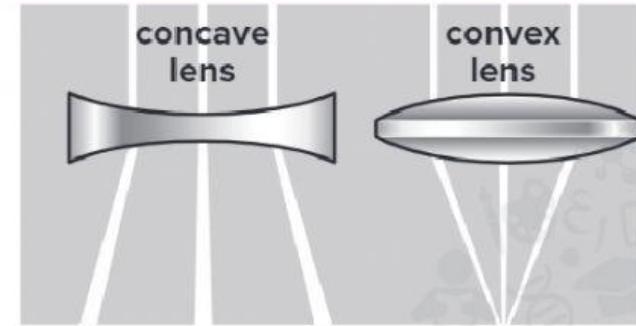
LAB BASED QUESTIONS



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