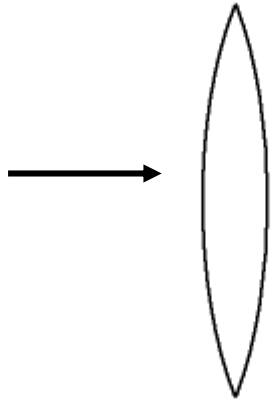
Activity

1. Get a ray box and a set of lenses.
2. Plug the ray box in and use the 5-slit baffle to produce 5 parallel light rays.
3. Put a lens in front of the light and observe any change of the rays.
4. For each lens, answer the following questions on a piece of paper.
   - What happens to the rays when they go through the lens?
   - Think about 2 real life examples of using this type of lens.

Lenses

A lens is a curved piece of transparent material that causes light to refract.

Types of lenses:

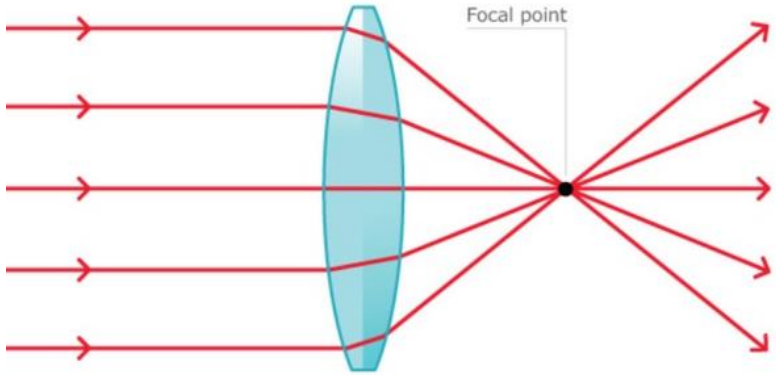
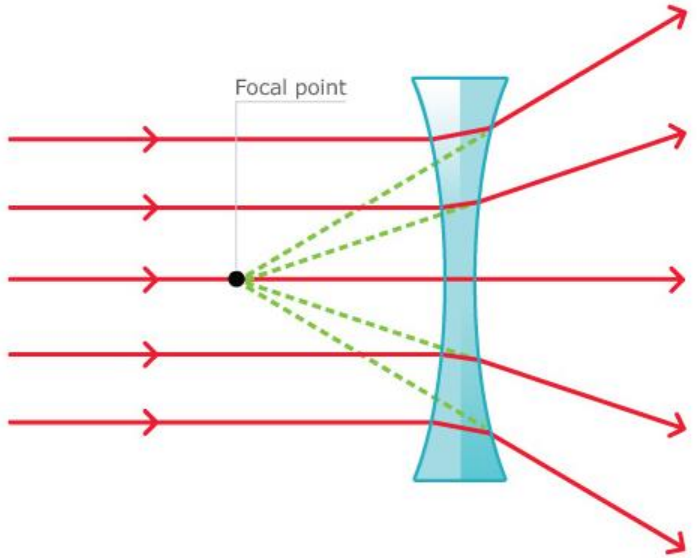
convex 

concave 

Lenses

	Convex	**Concave**
Shape	The middle is **thicker** than the edges	The middle is **thinner** than the edges
What happens to the light rays when they go through the lens?	The rays **come together**	The rays **spread apart**
Scientific term to describe this kind of lens	**Converging**	**Diverging**
Real life examples	Eyeglasses (farsighted), microscope, magnifying glass, telescope	Eyeglasses (nearsighted), door viewing hole

Lenses

	Convex	Concave
Path of light rays		

Lenses vs mirrors

	Mirrors	**Lenses**
Process that causes images to be formed	Reflection	Refraction
No. of sides	**1**	**2**
No. of focal points	**1**	**2**