

## Image Formation by Convex Mirrors

### Lesson Notes

#### Learning Outcomes

- How does light reflect off a convex mirror?
- How is an image formed by a convex mirror?

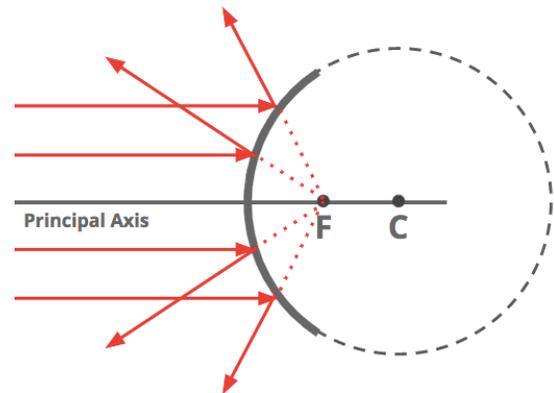
#### Convex Mirror Anatomy

Provide short definitions/descriptions of ...:

Principal Axis (PA):

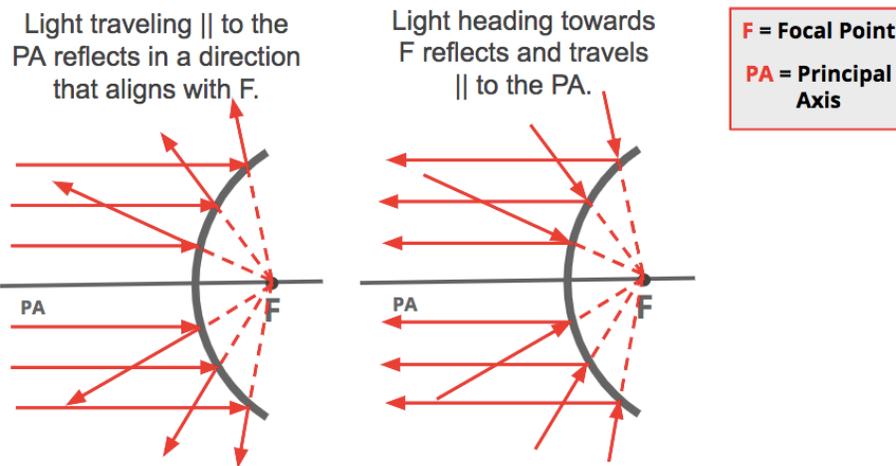
Center of Curvature (C)

Focal Point (F)



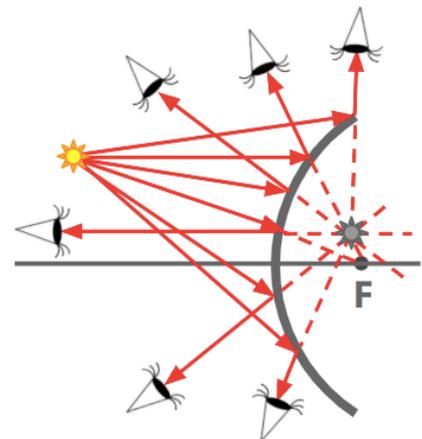
#### Two Rules of Reflection

Know the two rules!!!



#### Convex Mirror Image Formation

- To see an image you must sight at it. Light travel from the object to the mirror to your eye along your line of sight.
- An image is a representation or replica of the object that is located at the one location where it seems to every observer as though reflected light is coming from.



## Virtual Images

The convex mirror image is a **virtual image**. Virtual images form when reflected light diverges. Like plane mirror images, the virtual image formed by the convex mirror is located behind the mirror.

