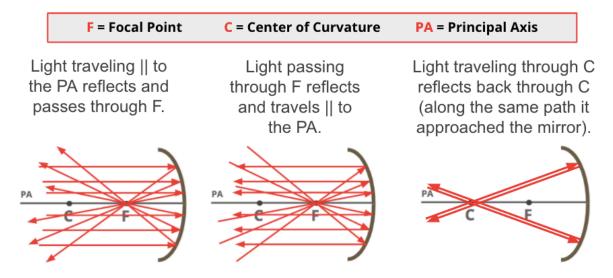
# Concave Mirror Ray Diagrams Lesson Notes

#### **Learning Outcomes**

 How do you draw a ray diagram for an object placed at varying locations in front of a concave mirror?

#### **Rules of Reflection**



#### **Drawing Ray Diagrams for Concave Mirrors - Directions**

Pick a point on top of object.

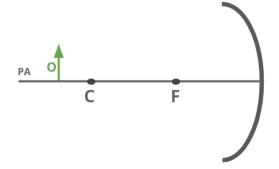
Draw two sets of incident-reflected rays:

- One II to PA and reflecting through F.
- One passing through F and reflecting II to PA.

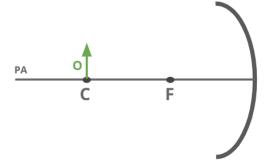
The image is the location where reflected rays intersect.

Use the directions above and the guidance provided in the video to construct ray diagrams for the following situations.

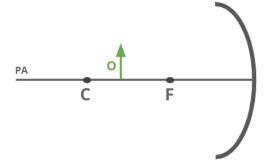
#### **Situation 1: Object Located Beyond C**



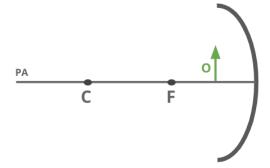
# Situation 2: Object at C



### Situation 3: Object Between C and F



## Situation 4: Object Between F and the Mirror



#### What About the F Location?

Describe what happens when the object is placed at the focal point.

