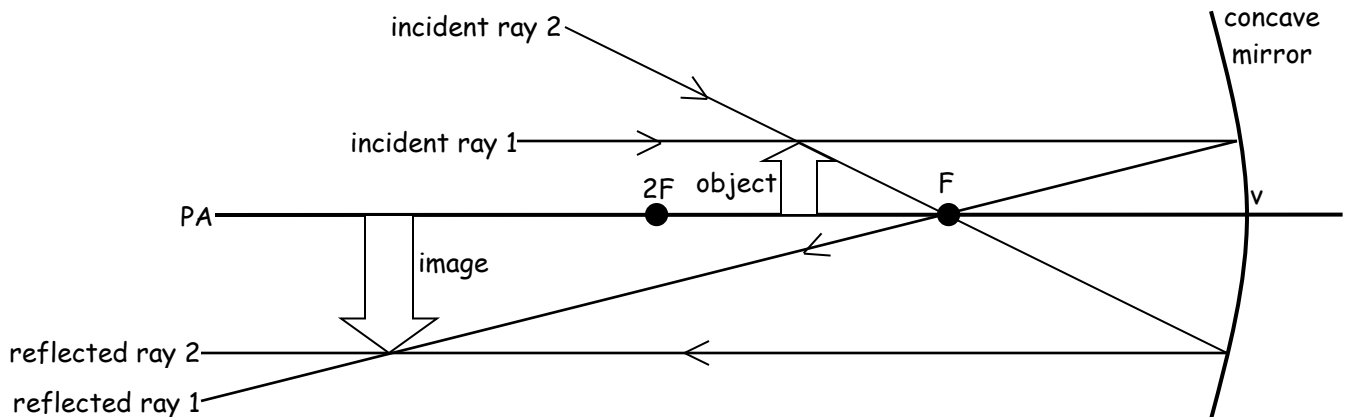


Concave Mirrors

- Concave mirrors curve inwards like a cave.

Drawing a Concave Mirror Ray Diagram

1. When the incident ray runs parallel to the principal axis (PA), the reflected ray always passes through the focal point (F).
2. When the incident ray goes through the focal point (F), the reflected ray runs parallel to the principal axis (PA).
3. Draw the image where the rays intersect.



- $2F$ is two times the focal length (f) and is also known as the **centre of curvature (C)**

Uses of Concave Mirrors

- Concave mirrors are designed to collect light and bring it to a single point. Some examples include telescopes and solar ovens.
- Concave mirrors can also be used to send out beams of light rays. Some examples include flashlights and headlights of a car.
- Concave mirrors can also be used to enlarge images like in cosmetic mirrors.