

Student Achievement • Suggested Achievement Indicators – Physics 11
Wave Motion and Geometrical Optics

B2 use ray diagrams to analyse situations in which light reflects from plane and curved mirrors

Organizer 'Wave Motion and Geometrical Optics' continued on page 31

- state the law of reflection
- identify the following on appropriate diagrams:
 - incident ray
 - reflected ray
 - angle of incidence
 - angle of reflection
 - normal
- show how an image is produced by a plane mirror
- describe the characteristics of an image produced by a plane mirror
- identify a curved mirror as converging (concave) or diverging (convex)
- identify the following on appropriate diagrams:
 - principal axis
 - centre and radius of curvature
 - image and object distance
 - focal point and focal length
- draw accurate scale diagrams for both concave and convex mirrors to show how an image is produced
- describe the characteristics of images produced by converging and diverging mirrors
- conduct an experiment to determine the focal length of a concave mirror