Name: _____ Group: _____ Date: _____

CONCEPT REVIEW 17

REFRACTION AND LENSES

PAGES 110 TO 116

Complete this concept review handout and keep it as a record of what you have learned.

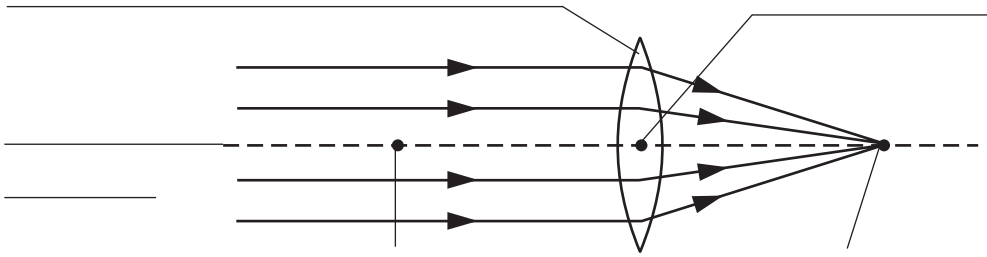
DEFINITIONS

- Refraction is _____
- A lens is _____

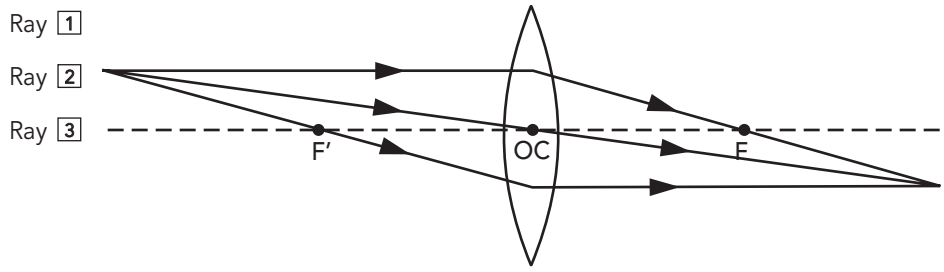
CONVERGING LENS

Focal point of a converging lens

The focal point of a converging lens is _____



Basic rays to determine the location of the image



Ray 1 A ray that travels parallel to the principal axis is refracted _____

Ray 2 A ray that travels straight through the optical centre of a lens _____

Ray 3 A ray that travels straight through the secondary focal point is refracted _____

Name: _____ Group: _____ Date: _____

CONVERGING LENS (CONT.)

Image produced by the lens

- The final image formed by a converging lens has different characteristics depending on

_____

- The characteristics, which can vary, are: _____

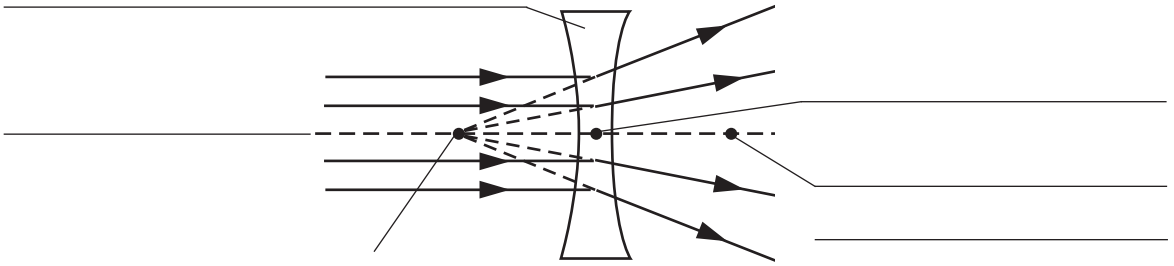
_____

DIVERGING LENS

Focal point of a diverging lens

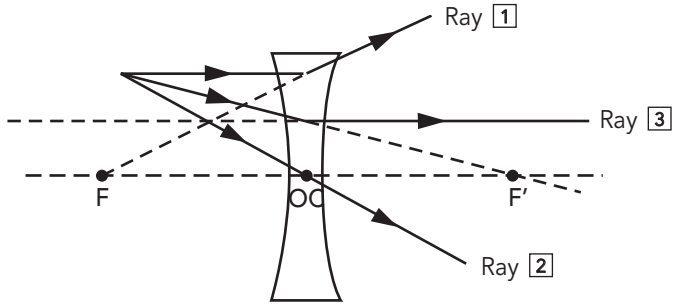
The focal point of a diverging lens is _____

_____



_____

Basic rays to determine the location of the image



Ray 1 A ray running parallel to the principal axis is refracted, _____

_____

Ray 2 A ray passing through the optical centre of the lens _____

Ray 3 A ray travelling toward the secondary focal point is refracted _____

_____

Image produced by the lens

- The images obtained by a diverging lens are always _____

_____

- The image is always located _____