

## LENSES REVIEW ASSESSMENT

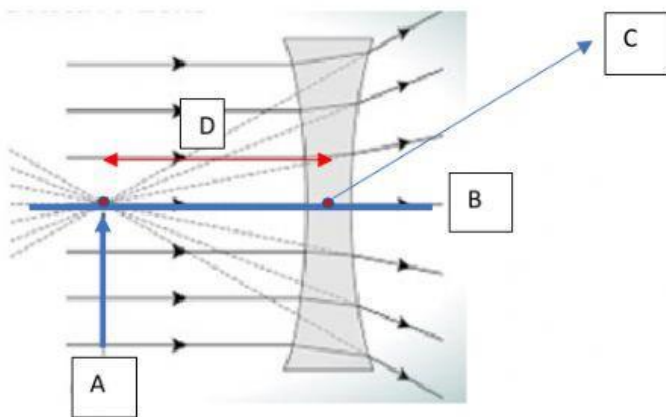
### SECTION 1-LENSES TYPES

#### FILL IN THE BLANK

Lenses are \_\_\_\_\_ materials that have a curved edge. Two types of lenses exist. These are convex and concave lenses. A convex lens is also called a \_\_\_\_\_ lens whereas, a concave lens can be called a \_\_\_\_\_ lens.

### SECTION 2: LENS TERMS

Choose from the drop down list the letter that matches the lens terminology with its location in the diagram below



Optical center	
Focal point	
Focal length	
Principal axis	

### SECTION 3: IMAGE FORMATION IN LENSES

#### MULTIPLE CHOICE: TYPE THE CORRECT LETTER IN THE BOXES BELOW

2) Convex lens always gives a real image if the object is situated beyond \_\_\_\_\_.

- a. Focal point
- b. Principal axis
- c. Focal length
- d. Focal plane

4) Where should an object be placed so that a real and inverted image of the **same size** is obtained, using a convex lens?

- a. Between O and F
- b. At F
- c. At 2F
- d. At infinity

6) Real images formed by single convex lenses are always \_\_\_\_\_.

- a. On the same side of the object
- b. Smaller than the object
- c. Inverted
- d. erect

8) When a person uses a convex lens as a simple magnifying glass, the object must be placed at a distance

- a. less than one focal length
- b. more than one focal length
- c. less than twice the focal length
- d. more than twice the focal length

9) The image produced by a concave lens is \_\_\_\_\_.

- a. always virtual and enlarged
- b. always virtual and reduced in size
- c. always real
- d. sometimes real, sometimes virtual

#### TRUE & FALSE

1. A projector uses a convex lens. \_\_\_\_\_
2. A virtual image cannot be projected onto a screen. \_\_\_\_\_
3. A magnifying glass forms a real image. \_\_\_\_\_
4. In order for the image formed by a convex lens to be the same size as an object, the object needs to be placed at a distance of  $2F$ . \_\_\_\_\_
5. The human eye has a convex lens. \_\_\_\_\_