PHYSICS IN MOTION
gpb.org/physics-motion

Unit 6N
Spherical Lenses
Note-Taking Guide

Name:

Date:

Main Ideas, Key Points, Questions:

After watching the video segment, write down key points, main ideas, and big questions.

Objective(s):

- ***To apply the Law of Refraction to thin, spherical lenses.***
- ***To use ray diagrams to conceptually understand how light refracts when it interacts with concave and convex lenses.***
- ***To calculate the location and height of the image formed when both concave and convex lenses are used.***

Notes:

During the video segment, use words, phrases, or drawings to take notes.

Summary:

After watching the video segment, write at least three sentences explaining what you learned.
You may ask yourself: "If I was going to explain this to someone else, what would I say?"

PHYSICS IN MOTION
gpb.org/physics-motion

Unit 6N
Spherical Lenses
Questions to Consider

Name:

Date:

Answer the following.

1. Define a lens in your own words.

2. If a lens converges light rays, do the rays come together or separate after passing through the lens?

3. What kind of lenses converge light rays? Draw a diagram of this lens in the space below.

4. What kind of lenses diverge light rays? Draw a diagram of this lens in the space below.

questions continued on next page

PHYSICS IN MOTION
gpb.org/physics-motion

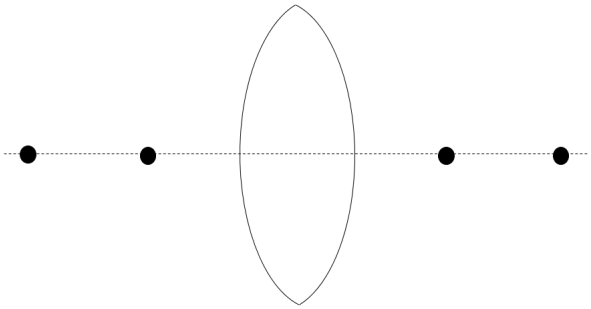
Unit 6N
Spherical Lenses
Questions to Consider

Name:

Date:

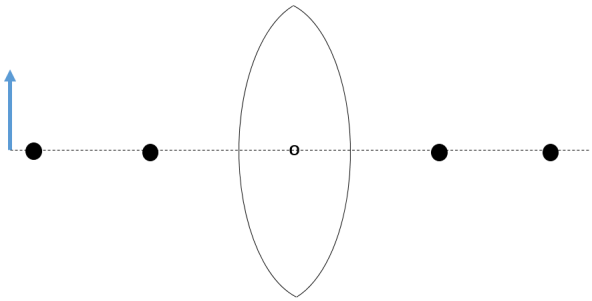
Answer the following.

5. On the diagram below, label the center of curvature, principal axis, and focal point.



6. What kind of image do convex lenses create?

7. Complete the ray diagram below for the example used in the video segment.



8. How do virtual images differ from real images?

9. What kind of image do concave lenses create?

10. How does the size of the image formed by concave lenses compare to the size of the object?