

Lenses Quiz PDF

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What type of lens is thicker in the middle than at the edges?	
○ Concave lens○ Convex lens○ Cylindrical lens○ Planar lens	
Which optical instrument uses lenses to magnify distant objects?	?
○ Microscope	
○ Telescopes	
○ Camera	
○ Binoculars	
Which equation represents the lens formula?	
\bigcirc 1/f = 1/v + 1/u	
○ f = v + u	
\bigcirc 1/f = 1/u - 1/v	
○ f = u - v	
What is the primary use of concave lenses in vision correction?	
Correctting farsightedness	
Correctting nearsightedness	
○ Correctting astigmatism	
Correctting color blindness	
Which type of image is formed by a concave lens?	
○ Real and inverted	
O Virtual and upright	

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○ Real and upright○ Virtual and inverted
Which type of aberration is caused by different wavelengths of light focusing at different points?
Spherical aberrationChromatic aberrationCommaAstigmatism
What are common uses of concave lenses?
□ Eyeglasses for nearsightedness□ Magnifying glasses□ Peepholes□ Projectors
Which of the following statements about real images are true?
 ☐ They can be projected onto a screen ☐ They are always upright ☐ They are formed by converging light rays ☐ They are always virtual
Which optical devices use lenses to focus light?
☐ Cameras ☐ Telescopes ☐ Mirrors ☐ Microscopes
Which factors affect the focal length of a lens?
☐ Refractive index ☐ Lens thickness ☐ Radii of curvature ☐ Lens material

Which of the following are characteristics of a convex lens?



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Thicker in the middle	
Diverges light rays	
Converges light rays	
Forms real images	
_ v	
What is the focal point of a lens?	
○ The point where light rays diverge	
○ The point where light rays converge	
○ The center of the lens	
○ The edge of the lens	
-	
Which type of lens is used in magnifying glasses?	
○ Concave lens	
○ Concave lens○ Convex lens	
○ Convex lens	
Convex lens Cylindrical lens	
Convex lens Cylindrical lens Planar lens	
Convex lens Cylindrical lens	
Convex lens Cylindrical lens Planar lens	
Convex lens Cylindrical lens Planar lens What are the effects of spherical aberration in lenses?	
Convex lens Cylindrical lens Planar lens What are the effects of spherical aberration in lenses? Blurred images	