## Lesson 3 Refraction and Lenses

Skim Lesson 3 in your book. Read the headings and look at the photos and illustrations. Identify three things you want to learn more about as you read the lesson. Record your ideas in your Science Journal.

## Main Idea <br> Refraction of Light

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## Details

Rank these four examples of transparent media from fastest to slowest according to their placement on the index of refraction.
air diamond oil water

| Fast |  |  |  |  | Slow |
| :--- | :--- | :--- | :--- | :--- | :--- |

Contrast what happens to light as it moves between transparent media.

| Light moves from a <br> faster medium | into to a slower medium <br> at an angle. |
| :--- | :--- |

Effect: $\qquad$

| Light moves from a <br> slower medium | into to a faster medium <br> at an angle. |
| :--- | :--- |

Effect: $\qquad$

Define lens, and explain how concave lenses and convex lenses differ.


## Lesson 3 | Refraction and Lenses (continued)

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## Refraction and Wavelength

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Relate the refraction of different wavelengths of light to the familiar spectrum of colors.


## Lesson 3 | Refraction and Lenses (continued)



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Compare and contrast rods and cones.

| Rod | Both | Cone |
| :--- | :--- | :--- |
|  |  |  |

Explain whether each eye needs vision correction and why.


A: $\qquad$
B: $\qquad$
C: $\qquad$
Synthesize It Use what you have learned about lenses and refraction to explain how eyeglasses correct blurred vision.

