| bb.org/physics-motion Note-Taking Guide Date: Main Ideas, Key Points, Use Status Objective(s): To understand why light refracts as it moves from one medium to another. Ther watching the video segment, write bound with different optical densities. To understand why light refracts as it moves between media with different optical densities. To understand why light refracts as it moves between media with different optical densities. To understand why light refracts as it moves between media with different optical densities. To buse Snell's law to calculate the critical angle of light between two different media. To buse Snell's law to calculate the critical angle of light between two different media. Notes: During the video segment, use words, phrases, or drawings to take notes. | INMOTION R | nit 6M efraction | Name: |
|---|---|--|---|
| Questions: Iter watching the video segment, write own key points, main ideas, and big restions. • To understand why light refracts as it moves from one medium to another. • To understand why light refracts as it moves from one medium to another. • To apply the law of refraction, or Snell's law, to light as it moves between media with different optical densities. • To use Snell's law to calculate the critical angle of light between two different media. • Notes: During the video segment, use words, phrases, or | b.org/physics-motion No | ote-Taking Guide | Date: |
| <i>During the video segment, use words, pirases, or</i> | Questions: fter watching the video segment, write own key points, main ideas, and big | To understand why light refract To apply the law of refraction, o media with different optical der To use Snell's law to calculate the | r Snell's law, to light as it moves between nsities. |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Summary: After watching the video segment, write at least three sentences explaining what you learned. | Summary: After watchi | ng the video segment, write at least three ser | ntences explaining what you learned. |

PH



Unit 6M Refraction *Questions to Consider*

Name:

Date:

| ۸n | swer the following | | | | |
|----|---|--|--|--|--|
| AI | Answer the following. | | | | |
| 1. | Define refraction in your own words. | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 2. | Why does light bend as it moves between different transparent media? | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 3. | The greater a material's index of refraction, the a material bends light. | | | | |
| | | | | | |
| 4. | The greater a material's index of refraction, the the speed of light in that material. | | | | |
| 5. | In the diagram below, label the incident light ray, the angle of incidence, the refracted light ray, and the angle of refraction. | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| 6. | When light moves from a faster medium into a slower medium, the light bends | _ the |
|----|---|-------|
| | normal line. | |

7. When light moves from a slower medium into a faster medium, the light bends ______ the normal line.



Name:

Date:

Answer the following.

- 8. Write Snell's law in the space below:
- 9. Define critical angle in your own words.
- 10. If light traveling into a faster medium has an angle of incidence greater than the critical angle, the light ______ back into the original medium.
- 11. Which wavelength of visible light bends the most?
- **12.** Name two applications of refraction that are mentioned in the segment.