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## 5.02 Properties of Light Guided Notes

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### Objectives:

In the lesson, you will:

- explain that light waves can be reflected, refracted, and/or absorbed
- recognize that light waves move in straight lines unless they travel into a transparent material, or medium, which may cause the light wave to bend
- differentiate light waves and matter waves

### Big Ideas:

Key Questions and Terms	Notes
When does reflection occur?	
What happens to light when it reflects?	
Complete the sentence and draw a	If light hits a mirror at a 40-degree angle, it will bounce off at a ____ degree angle.

picture of what it would look like.	
When does refraction occur?	
What happens to light when it refracts?	
When does absorption occur?	
What happens to light waves when absorbed?	
How much of the light do white t-shirts and black t-shirts absorb?	
How does density impact refraction and the speed of the light?	
What are some examples of matter waves?	
What are some examples of electromagnetic waves?	

How are matter waves the same as light waves?	
How are matter waves different from light waves?	
What happens to sound waves at a concert?	
Would outer space be an ideal spot for a concert? Why or why not?	
Which type of wave would travel faster through air: light or sound?	
Which wave type is most likely able to travel through a metal tray?	
Why do you see lightning first and then hear thunder later?	