

**Chapter 17**

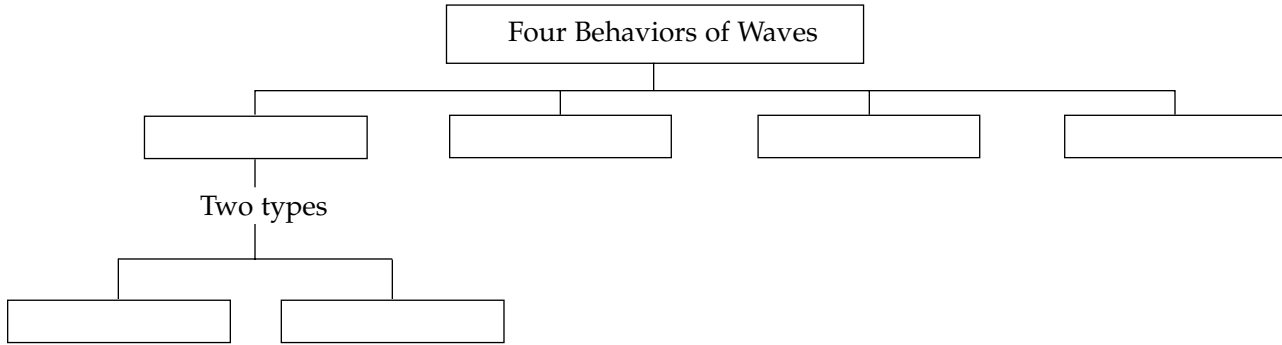
Use with Section 3

**REINFORCEMENT**

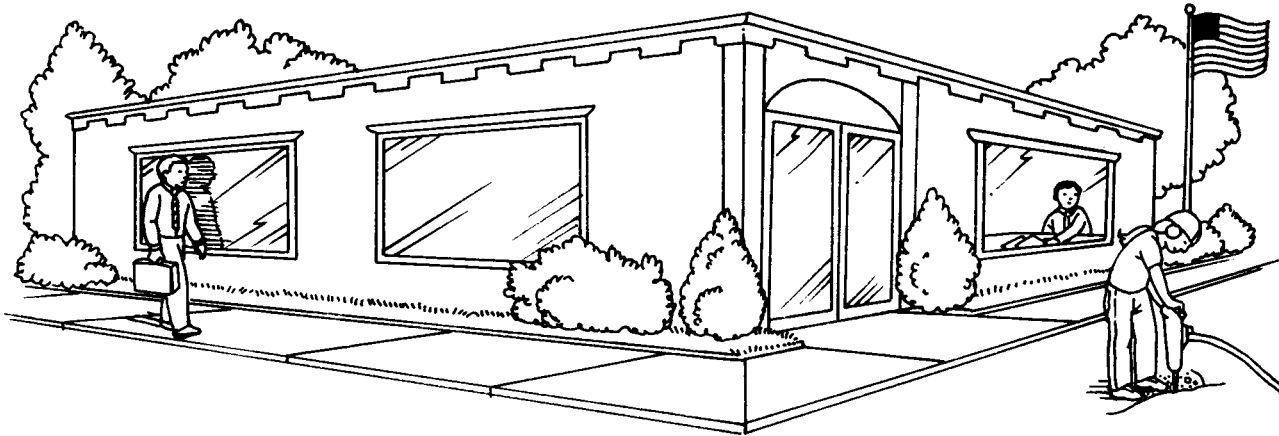
● **Wave Behavior**

Use the terms from the box to complete the diagram.

Destructive	Constructive	Interference
Diffraction	Refraction	Reflection



Study the picture. Think about light waves and sound waves. Then answer each question.



1. The man in the building watches the worker through a window. What happens to the light waves as they pass through the window?  
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2. What property of waves is the worker taking advantage of by wearing ear protectors?  
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3. The man down the street hears the jackhammer around the corner, although he cannot see it. What property of waves is responsible for this?  
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4. The man down the street can see an image of himself in the window. What property of waves is responsible for this?  
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5. The man down the street can **NOT** see an image of himself in the wall of the building. What property of waves is responsible for this?  
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