

Interference

Quick Draw: Figure 25.10, page 498

Questions:

1. When does wave interference occur?
2. What is the difference between the two types of interference?

Real world example:

Standing Waves

Quick Draw: Figure 25.14, page 501- Label the nodes and antinodes

Questions:

3. What is a standing wave?
4. What do we call the point on a standing wave where no motion occurs?

Real world example:

Chapter 25 Waves

25.7,25.8,25.9,
25.10,25.11

The Doppler Effect

Quick Draw: Figure 25.17, page 503

Questions:

5. What is the Doppler Effect?
6. When a wave source moves towards an observer, what happens to the frequency of the wave?

Real-world example:

Bow Waves and Shock Waves

Quick Draw: Figure 25.20, page 504 & Figure 25.23, page 506

Questions:

7. What causes a bow wave?
8. What causes a shock wave?
9. When is a sonic boom heard?

Real-world example: