



Name _____ Class _____ Date _____

Match each of the following terms to its definition:

Interference

Doppler effect

Elasticity

Loudness

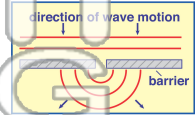
Sonar

Resonance

Pitch

Diffraction

1. _____ - the ability for sound to spread out and go around obstacles in its path



2. _____ - the change in the frequency of sound as its source moves in relationship to a listener



3. _____ back to t

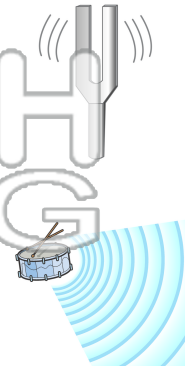
Source	loudness (dB)
10	
15-20	
20-30	
40-50	
60-70	
90-100	
110-120	
rock concert 120	
jackhammer 120	
jet plane at takeoff 120-160	

4. _____ the const

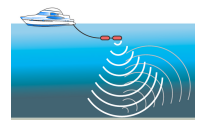
5. _____ waves

6. _____ - the perceived frequency of sound

7. _____ - the vibration that occurs in objects near or attached to the source of sound



8. _____ - a device used by ships in which sound is sent below the surface to create a picture of what is below the ship





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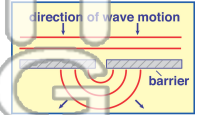
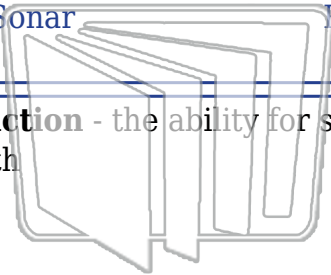
Sonar

Resonance

Pitch

Diffraction

1. **diffraction** - the ability for sound to spread out and go around obstacles in its path



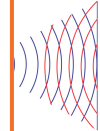
2. **Doppler effect** - the change in the frequency of sound as its source moves in relationship to a listener



3. **elasticity** - the ability of an object to return back to its original shape



4. **interference** - the combination of two waves to form a new wave with a constant amplitude

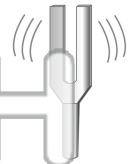
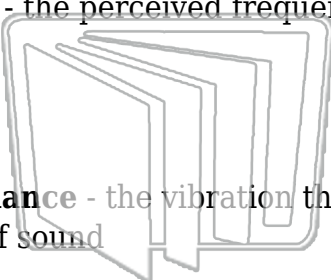


5. **loudness** - the amount of energy that is carried by a sound wave

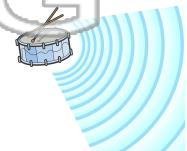
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Source	Loudness (dB)
10	10
15-20	15-20
20-30	20-30
40-50	40-50
60-70	60-70
90-100	90-100
rock concert	110-120
jackhammer	120
jet plane at takeoff	120-160

6. **pitch** - the perceived frequency of sound



7. **resonance** - the vibration that occurs in objects near or attached to the source of sound



8. **sonar** - a device used by ships in which sound is sent below the surface to create a picture of what is below the ship

