



Name: _____

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Student Exploration: Doppler Shift

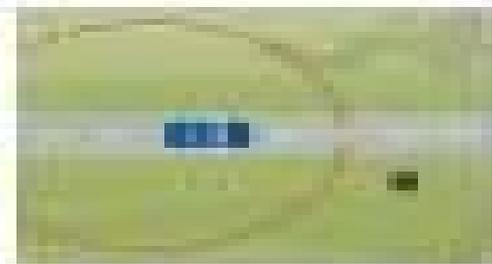
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Pre-Knowledge Questions: (Directions: All 7 apply using the terms.)
How can you tell if an object is moving towards you, or away from you? How can you tell if you are moving towards an object or away from it?

1. If you are moving towards a car, the sound of the car's horn will be higher than if you were moving away from it.

The change in the sound that you hear is called the **Doppler shift**.

Warm-up questions:
How do you know that the Doppler shift is caused by the Doppler effect? The Doppler effect is a change in the frequency of waves that is caused by the relative motion between the source and the observer.



2. How does the **pitch** (frequency) of a sound change as the source moves towards you (or away from you)?

When approaching? higher When receding? lower

3. How does the **pitch** of a sound change as you move towards a source (or away from a source)?

The pitch is higher as you approach and lower as you recede.

4. How do the **wavelengths** of the waves change as the source moves towards you (or away from you)?

Wavelengths that are shorter Wavelengths that are longer

5. Why do you think the waves in front of the car have a shorter wavelength than the waves behind the car? (Think: It is because the car is moving towards the waves in front and away from the waves behind. The waves in front are compressed and the waves behind are stretched.)



Explore Learning Doppler Shift Answer Key

G Thomas



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