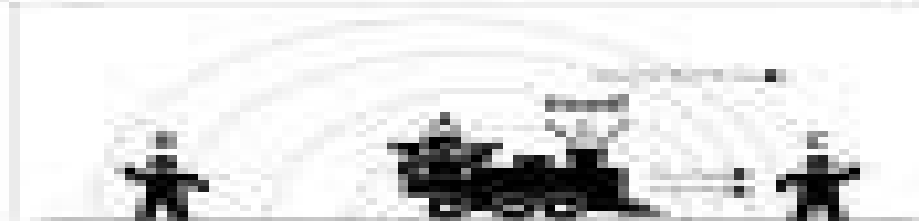


Astronomy Ranking Task: Doppler Shift

Question #1:

Scenario: The Space Shuttle *Columbia* is orbiting Earth, moving toward the right with velocity v (to the right). People are seated at locations A, B, and C. Astronauts at these points can hear the radio (transmitting) beam.



1. **Ranking Exercise:** Rank the planets (the least Doppler-shifted pitch to frequency) to most pitch (or frequency) as heard by participants (A, B, C).

Ranking Student: Highest (A, B, C) _____ (A, B, C) _____

On the provided graph, write down the _____ (fill in with words or numbers).

Explain: explain your reasoning for ranking this way.

Participant A is closest to the shuttle, so the highest (lowest frequency). Since C is moving away from the shuttle, the radio waves are shifted down (lower frequency). The frequency will be lower than the other two. Participant B is in the middle, so the radio waves are shifted down (lower frequency). Participant C is moving away from the shuttle, so the radio waves are shifted down (lower frequency).

2. **Ranking Exercise:** Rank the planets (the least Doppler-shifted pitch to frequency) to most pitch (or frequency) as heard by participants (A, B, C).

Ranking Student: Highest (A, B, C) _____ (A, B, C) _____

On the provided graph, write down the _____ (fill in with words or numbers).

Explain: explain your reasoning for ranking this way.

Participant A is closest to the shuttle, so the highest (lowest frequency). Since C is moving away from the shuttle, the radio waves are shifted down (lower frequency). The frequency will be lower than the other two. Participant B is in the middle, so the radio waves are shifted down (lower frequency).

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Astronomy Ranking Task Doppler Shift Answers

Robert Jastrow, Malcolm H. Thompson



Astronomy Ranking Task Doppler Shift Answers:

Technical Education and Industrial Training, 1965 *Instructor's resource book* Robert Jastrow, Malcolm H. Thompson, 1974 Instructor's Manual to Accompany Essentials of the Dynamic Universe: an Introduction to Astronomy. Second Edition, Theodore P. Snow Stephen J. Shawl, 1987 *Review Questions in Astronomy* Badri M. Aghassi, 1978

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 - Chapter 2: Essential Elements of Astronomy Ranking Task Doppler Shift Answers
 - Chapter 3: Astronomy Ranking Task Doppler Shift Answers in Everyday Life
 - Chapter 4: Astronomy Ranking Task Doppler Shift Answers in Specific Contexts
 - Chapter 5: Conclusion
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 6. In chapter 5, this book will draw a conclusion about Astronomy Ranking Task Doppler Shift Answers. This chapter will summarize the key points that have been discussed throughout the book.
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