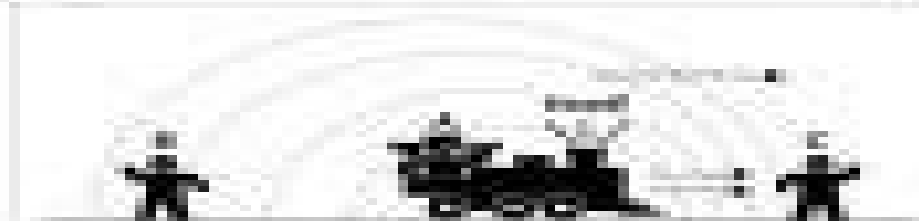


# Astronomy Ranking Task: Doppler Shift

## Question #1:

**Scenario:** The Space Shuttle *Orion* is just launching toward the right and emitting its radio waves. People are located at locations A, B, and C. Assume that all three people can hear the radio (transmit) beam.



1. **Ranking Question:** Rank the people at the three launch-point positions (according to how much red (or blue) shift is heard by each person) (A...B...C)

**Ranking Student:** Highest (A...B...C)... (A...B...C) (lowest)

On the provided graph, write down the value of the wave \_\_\_\_\_ (fill in with words or numbers)

**Explain:** explain your reasoning for ranking this way.

Person A will hear the shortest wavelength (highest frequency) waves. Person B will hear waves that are the same wavelength as the waves emitted from the shuttle. Person C will hear the longest wavelength (lowest frequency) waves. This is because the shuttle is moving toward person A, so the waves are compressed. The shuttle is moving away from person B, so the waves are stretched. The shuttle is moving away from person C, so the waves are stretched even more.

2. **Ranking Question:** Rank the wavelengths (longest and shortest) of the radio waves received by each person (A...B...C)

**Ranking Student:** Longest (A...B...C)... (A...B...C) (shortest)

On the provided graph, write down the value of the wave \_\_\_\_\_ (fill in with words or numbers)

**Explain:** explain your reasoning for ranking this way.

Person A will hear the shortest wavelength (highest frequency) waves. Person B will hear waves that are the same wavelength as the waves emitted from the shuttle. Person C will hear the longest wavelength (lowest frequency) waves. This is because the shuttle is moving toward person A, so the waves are compressed. The shuttle is moving away from person B, so the waves are stretched. The shuttle is moving away from person C, so the waves are stretched even more.

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**Badri M. Aghassi**



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