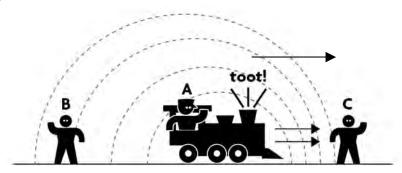
## Astronomy Ranking Task: Doppler Shift

## Exercise #1

**Description:** The figure below shows a train traveling toward the right and sounding its horn. Three persons are shown at locations A, B, and C. Assume that all three people can hear the train blowing its horn.



<b>A. Ranking Instructions:</b> Rank the pitch of the horn from highest pitch (or frequency) to lowest pitch (or frequency) as heard by each person $(A - C)$				
Ranking Order: Highest 1	2	3	Lowest	
Or, the pitch heard by each person	would be	the same	(indicate with check mar	·k).
Carefully explain your reasoning	for rankin	g this way:		
<b>B. Ranking Instructions:</b> Rank horn as heard by each person (A –		ength (from l	ongest to shortest) of the sound	of the
Ranking Order: Longest 1	2	3	Shortest	
Or, the wavelength heard is the sai	me for eac	h person	(indicate with check mark).	
Carefully explain your reasoning	for rankin	g this way:		