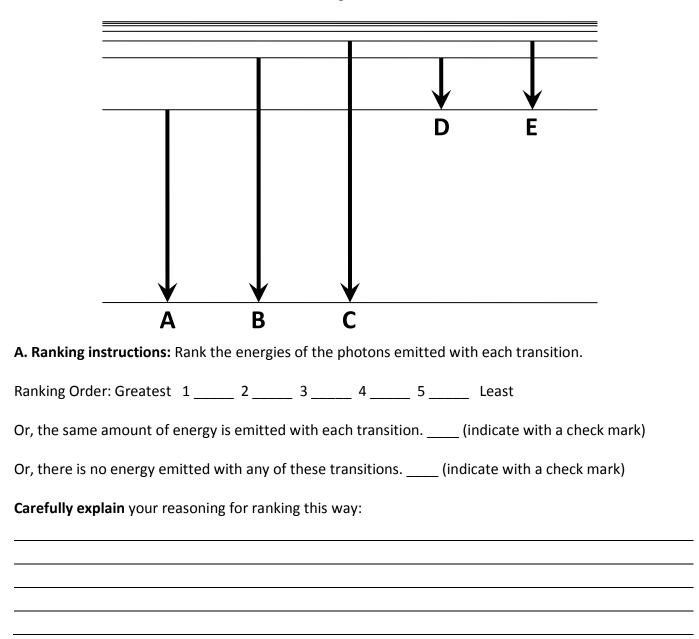
## Astronomy Ranking Task: Electron Transitions

## Exercise #1

**Description:** The figure below represents an energy level diagram for a fictitious atom. Five possible electron transitions are indicated, labeled A through E.



**B. Ranking instructions:** Rank the wavelengths of the photons associated with each transition.

Ranking Order: Shortest Or, the photons associa check mark)							_ (indicate with a
Carefully explain your r	easoning	g for ranki	ing this v	vay:			
C. Ranking instructions	: Rank th	e frequer	ncies of t	he photo	ns associat	ted with each	transition.
Ranking Order: Lowest	1	2	3	_ 4	5	Highest	
Or, the photons associated with the transitions all have the same frequency (indicate with a check mark)							
Carefully explain your reasoning for ranking this way:							