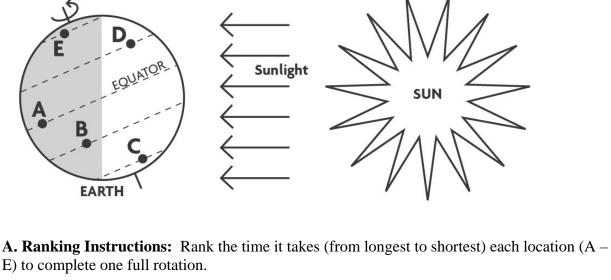
## Astronomy Ranking Task: The Seasons

## Exercise #4

**Description:** In the figure below parallel beams of sunlight illuminate Earth. Notice that the Earth's rotation axis is slightly tilted. As the Earth spins, locations A through E spend part of the 24 hour day in sunlight, and part of the day in darkness (as indicated by the shaded region).



E) to complete one full rotation.		(110111			,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Ranking Order: Longest time 1	2	3	4	5	Shortest time
Or, the time it takes each location to n check mark).	nake one	full rotati	on is the	same	(indicate with
Carefully explain your reasoning for	ranking t	his way:			
<b>B. Ranking Instructions:</b> Rank the daylight during each 24 hour period.	time (fro	m longest	to shorte	st) that e	ach location spends in
Ranking Order: Longest time 1	2	3	4	5	Shortest time.
Or, the time each location spends in da	aylight is	the same.	•	(indic	eate with check mark).
Carefully explain your reasoning for	ranking t	this way:			

<b>C. Ranking Instructions:</b> Imagine that you placed identical glasses of water at each location (A - E) and the water was warmed by the Sun during one full 24 hour rotation. Rank the temperature (from coolest to hottest) of the glasses of water at each location (A – E) at the end of that time period.
<b>Ranking Order:</b> Coolest 1 2 3 4 5 Hottest
Or, the temperature of each glass of water is the same (indicate with check mark).
Carefully explain your reasoning for ranking this way: