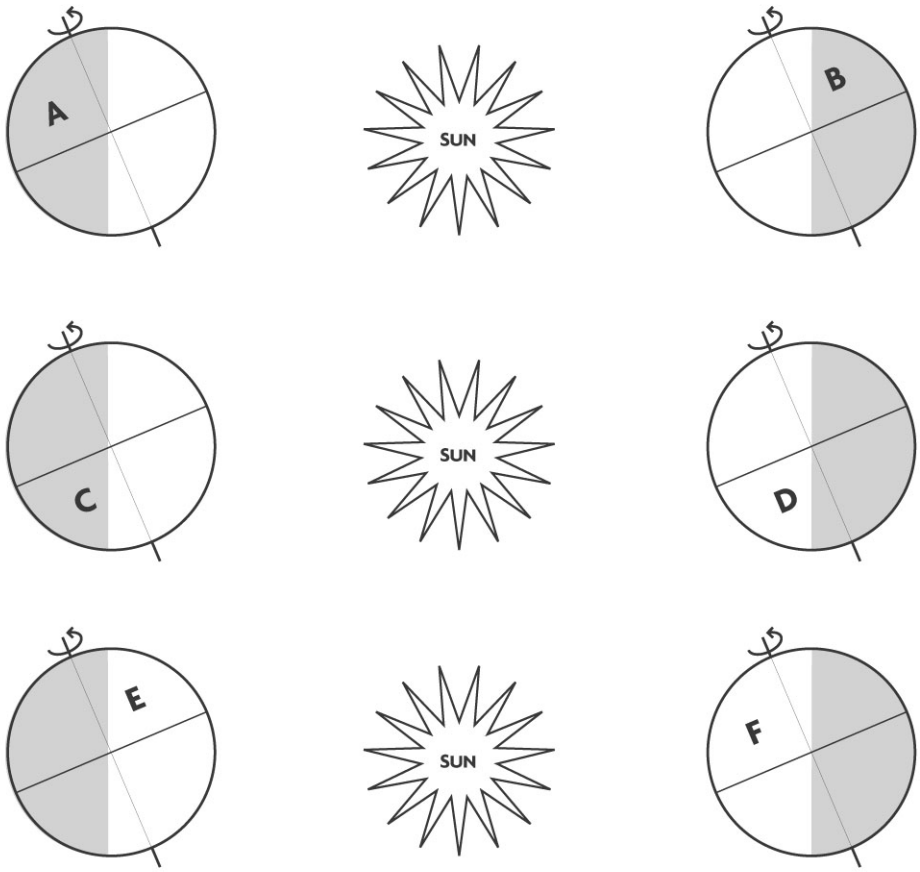
Astronomy Ranking Task:
The Seasons

Exercise #4

Description: In the figure below six different locations (A - F) on Earth are shown during a particular time of the year. Note that each location is the same distance away from the equator.



A. Ranking Instructions: Rank the time it takes (from longest to shortest) for each location (A – F) to complete one full rotation.

Ranking Order: Longest time 1 _____ 2 _____ 3 _____ 4 _____ 5 _____ 6 _____ Shortest time

Or, the time it takes each location to make one full rotation is the same. _____ (indicate with check mark).

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Carefully explain your reasoning for ranking this way:

_____
_____
_____
_____

B. Ranking Instructions: Rank the time (from longest to shortest) that each location spends in daylight during each 24 hour period.

Ranking Order: Longest time 1 _____ 2 _____ 3 _____ 4 _____ 5 _____ 6 _____ Shortest time.

Or, the time each location spends in daylight is the same. _____ (indicate with check mark).

Carefully explain your reasoning for ranking this way:

_____
_____
_____
_____

C. Ranking Instructions: Imagine that you placed identical glasses of water at each location (A - F). Rank the highest temperature (from coolest to hottest) a glass of water would reach during a 24 hour period at each location.

Ranking Order: Coolest 1 _____ 2 _____ 3 _____ 4 _____ 5 _____ 6 _____ Hottest

Or, the temperature of each glass of water would be the same. _____ (indicate with check mark).

Carefully explain your reasoning for ranking this way:

_____
_____
_____
_____

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