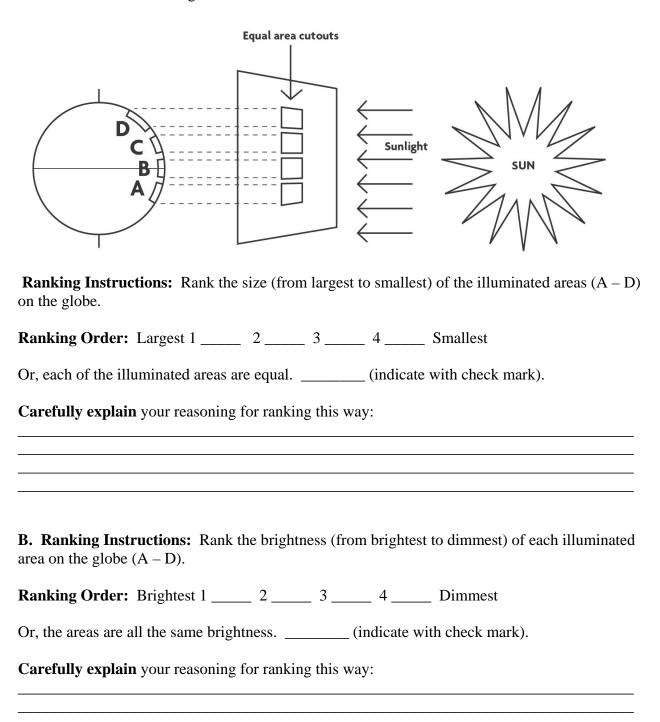
Astronomy Ranking Task: The Seasons

Exercise #3

Description: In the figure below parallel beams of sunlight are projected through equal sized cutouts of a screen and then strike a spherical globe at locations A - D. Note that A and C are at the same "latitude" on the globe.



C. Ranking Instructions: Imagine that you placed very sensitive thermometers against each illuminated area on the globe and measured its temperature. Rank the temperature (from coolest to hottest) of each illuminated area $(A - D)$.
Ranking Order: Coolest 1 2 3 4 Hottest
Or, the temperatures of each illuminated area would all be the same (indicate with check mark).
Carefully explain your reasoning for ranking this way: