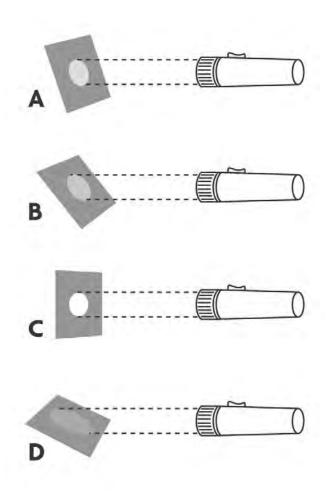
Astronomy Ranking Task: The Seasons

Exercise #2

Description: In each figure below a flashlight is shown projecting identical beams of light onto pieces of paper (A - D) inclined at various angles.



A. Ranking Instructions: Reach piece of paper $(A - D)$.	ank the size	e of the	illuminate	d area (from largest to smalle	est) on
Ranking Order: Largest 1_	2	3	4	Smallest	
Or, the illuminated areas are a	ll the same	size	(indicate with check mark).	
Carefully explain your reason	ning for ran	king thi	s way:		

B. Ranking Instructions: Rank the brightness (from brightest to dimmest) of each illuminated area on the pieces of paper $(A - D)$.
Ranking Order: Brightest 1 2 3 4 Dimmest
Or, the areas are all the same brightness (indicate with check mark).
Carefully explain your reasoning for ranking this way:
C. Ranking Instructions: Imagine that you placed a very sensitive thermometer against the illuminated area of each piece of paper 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:
D. Ranking Instructions: Rank the distance (from shortest to longest) of each illuminated area (A - D) from the flashlight.
Ranking Order: Shortest 1 2 3 4 Longest
Or, the distances of each illuminated area from the flashlight are all the same (indicate with check mark).
Carefully explain your reasoning for ranking this way:

GORANKING Instructions: Rank the total amount of light striking each of the pieces of paper $(A - D)$.
Ranking Order: Most 1 2 3 4 Least
Or, the same total amount of light strikes each piece of paper (indicate with check mark).
Carefully explain your reasoning for ranking this way: