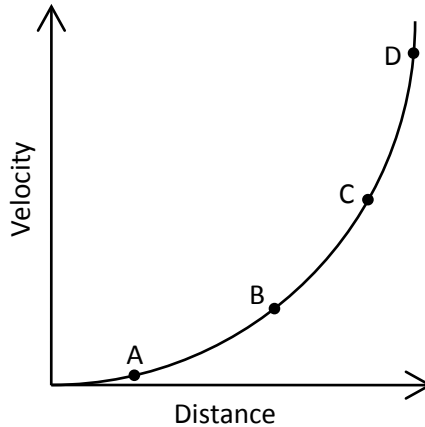


## Astronomy Ranking Task: Hubble's Law

### Exercise #3

**Description:** A Hubble plot is shown with dots marking four positions on the curve (A, B, C, & D).



**A. Ranking instructions:** Rank the speeds at each of the points.

Ranking Order: Slowest 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4 \_\_\_\_\_ Fastest

Or, all points indicate the same speed. \_\_\_\_\_ (indicate with a check mark)

**Carefully explain** your reasoning for ranking this way:

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**B. Ranking instructions:** Rank the distances at each of the points.

Ranking Order: Closest 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4 \_\_\_\_\_ Farthest

Or, all points indicate the same distance. \_\_\_\_\_ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

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**C. Ranking instructions:** Rank the slopes of the graph at each of the points.

Ranking Order: Shallowest 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4 \_\_\_\_\_ Steepest

Or, the slope of the graph at each point is the same. \_\_\_\_\_ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

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**D. Ranking instructions:** Rank the expansion rates at each of the points.

Ranking Order: Slowest 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4 \_\_\_\_\_ Fastest

Or, all points indicate the same expansion rate. \_\_\_\_\_ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

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**E. Ranking instructions:** Rank the times in the universe at each of the points.

Ranking Order: Earliest 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4 \_\_\_\_\_ Latest

Or, all points indicate the same moment in time. \_\_\_\_\_ (indicate with a check mark)

**Carefully explain** your reasoning for ranking this way:

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**F.** Does this Hubble plot accurately represent the behavior of our universe? Explain your reasoning.

Yes

No