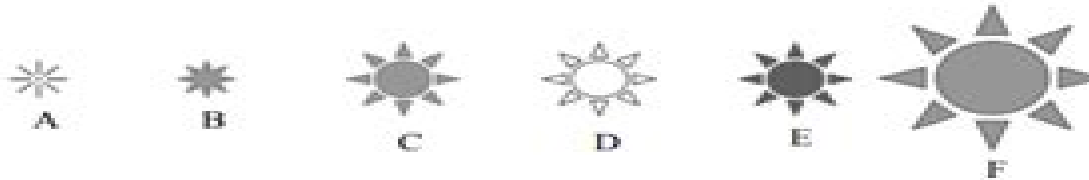


Astronomy Ranking Task: Luminosity of Stars

Exercise #5

Description: The temperature and surface area for six stars (A - F) are given in the table below.



Star	A	B	C	D	E	F
Surface Area	1	1	2	2	2	4
Temperature	1000 K	2000 K	2000 K	3000 K	1000 K	2000 K

Ranking instructions: Rank the luminosity of the stars (A – F) from greatest (brightest) to least (dimmiest).

Ranking Order: Greatest 1 ____ 2 ____ 3 ____ 4 ____ 5 ____ 6 ____ Least

Or, all the stars have the same luminosity. ____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:

Astronomy Ranking Task Luminosity Of Stars

Roman Wölfel



Astronomy Ranking Task Luminosity Of Stars:

Astronomy Eric Chaisson, Stephen McMillan, 2007 A brief introductory astronomy book designed for readers with little or no scientific background A Beginner's Guide uses an exceptionally clear writing style The authors present a broad view of astronomy without complex mathematics yet the book discusses important concepts without simplification The book's organization follows the popular and effective Earth Out progression starting with our planet and then moving through the solar system A study of the Sun as a model star follows then the book covers the Milky Way Galaxy cosmology and the universe as a whole Because of its easy to read yet comprehensive coverage of astronomy this book can serve as excellent reference material for those readers interested in learning about our universe Personal Response System Through a partnership with Interwrite PRS this text is available with the PRS clicker system The Instructor Resource Center on CD ROM contains conceptual clicker questions in PowerPoint *Scientific and Technical Aerospace Reports*, 1990 **The Design, Creation, and Cognitive Evaluation of Ranking Tasks in Introductory Astronomy** Emily A. Welch, 2021 Ranking tasks are a type of interactive formative assessment They allow students to explore a concept by ranking similar situations for a specified variable preferably without computation of that variable I created two sets of introductory astronomy ranking tasks the first connects the Hertzsprung Russell HR diagram and the Stephan Boltzmann luminosity equation the second uses the transit method TM to rank exoplanets by comparing the depth duration and frequency of transits These tasks are designed within the constructivist pedagogical framework They require students to call upon their own relevant schema to establish an assessment rule by which to rank the tasks Any new information encountered in the tasks background or feedback must be actively assimilated or accommodated as students construct mental models of the luminosity relationship and the nature of transiting exoplanets Data driven decision making is at the heart of a good curriculum design process I evaluated students use of the ranking tasks through the think aloud method in which students verbalize without interpreting their cognitive processes This data then directed the improvement of the tasks and the fit of the cognitive model of physics problem solving to the process of ranking These ranking tasks are published online at <https://astro.unl.edu> with many other ranking tasks that are free to use

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