

A map of the stars

Excel plotting guide

Objective: Plot an H-R diagram using given data.

Data Link: [Excel Data for Bright Stars](#)

Data columns:

- A. Effective temperature (K)
- B. Absolute magnitude (M_v)

Instructions:

1. Enter the data into a new Excel or Google Sheets.
2. Insert a scatter chart ($x = T_{\text{eff}}$, $y = M_v$).
3. Reverse the x-axis so that higher temperatures appear on the left.
4. Label key stars and regions (main sequence, red giants, white dwarfs).
5. Discuss: What pattern do you observe?