

## 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?