

A map of the stars

Activity 3 worksheet

1. What trends do you observe between temperature and luminosity on your diagram?

2. Which stars do not follow this trend, and what might their positions reveal about their stage of life?

3. How do your plotted results compare with Gaia's billion-star H-R diagram?

4. How could limited or uncertain data change the apparent shape of the H-R Diagram and what biases might this introduce?

5. How does metallicity (element composition) influence star colour and brightness?

6. What surprised you most about your plotted data, and why?

7. If you had to explain the H-R diagram to someone using only three sentences, what would you say?
