

HOME LEARNING

Subject: GCSE Astronomy

Time: 40-50 mins

Learning Objective: To be able to understand the Hertzsprung-Russel diagram.

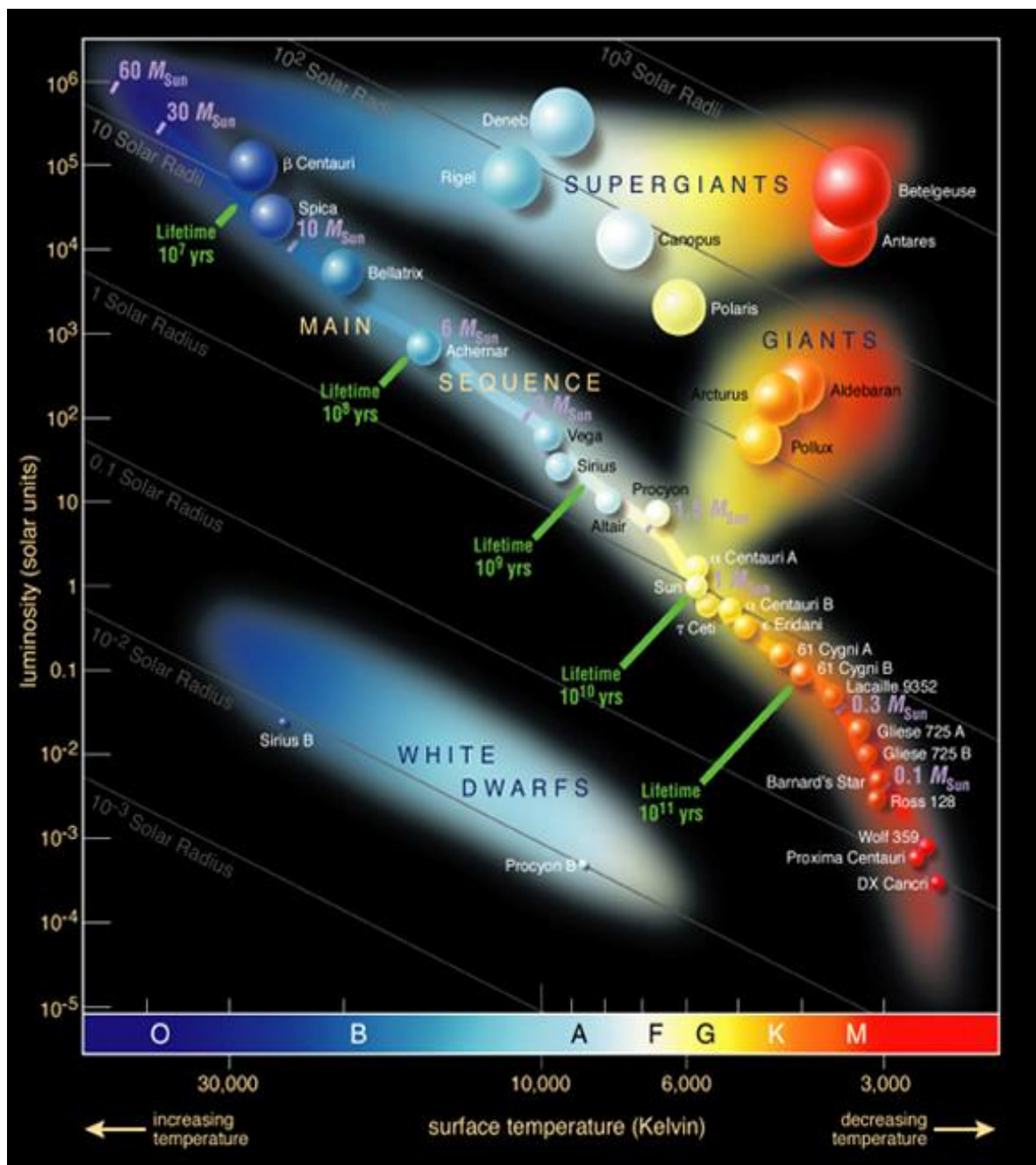
Task 1 - Listen to my audio clip [Click to listen](#)

Task 2 - Click the link and watch the video about the Hertzsprung-Russel diagram.

https://www.youtube.com/watch?v=EtlJCfaxdc&feature=emb_rel_end

Task 3 – Click the link and read the text.

<https://www.schoolobservatory.org/learn/astro/stars/class/hrdiagram>



Task 4 - Now try and answer the exam questions.

6 Figure 6 shows an incomplete Hertzsprung – Russell Diagram.

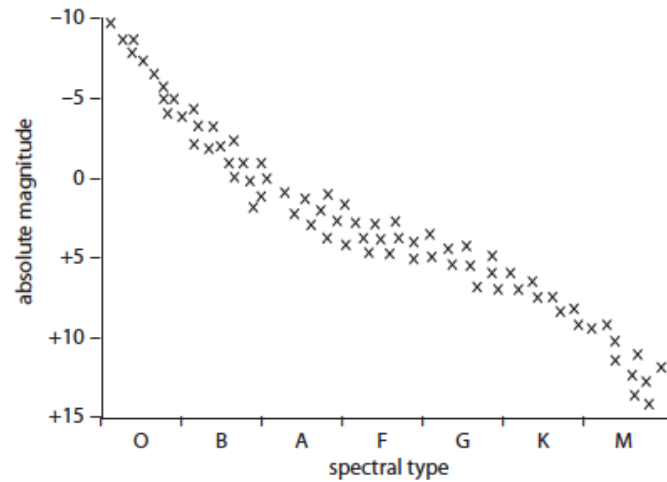


Figure 6

(a) (i) What is the name of the diagonal band running from top-left to bottom-right?

(1)

(ii) One axis shows spectral type.

Which other quantity is often used on this axis?

(1)

- A Distance
- B Luminosity
- C Magnitude
- D Temperature

(b) On Figure 6, indicate the positions of:

(i) a red giant star. Use the letter **R**.

(1)

(ii) a white dwarf star. Use the letter **W**.

(1)

Save your work:

If you are using a computer, open a blank document to do your work (you can use Word or Publisher). Don't forget to SAVE it with your name, the lesson you are doing and the date.

For example: T.Smith Maths 8 April

If you would like us to see or mark your work please email it or send a photo of your completed work to:

jlarrive@glebe.bromley.sch.uk

Thank you