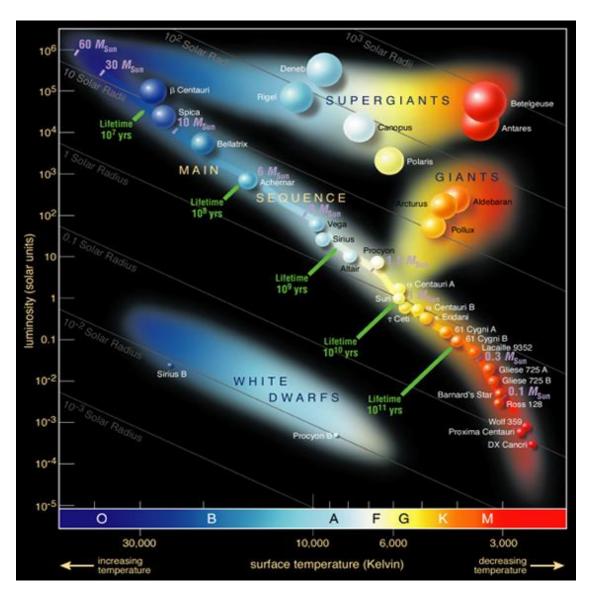
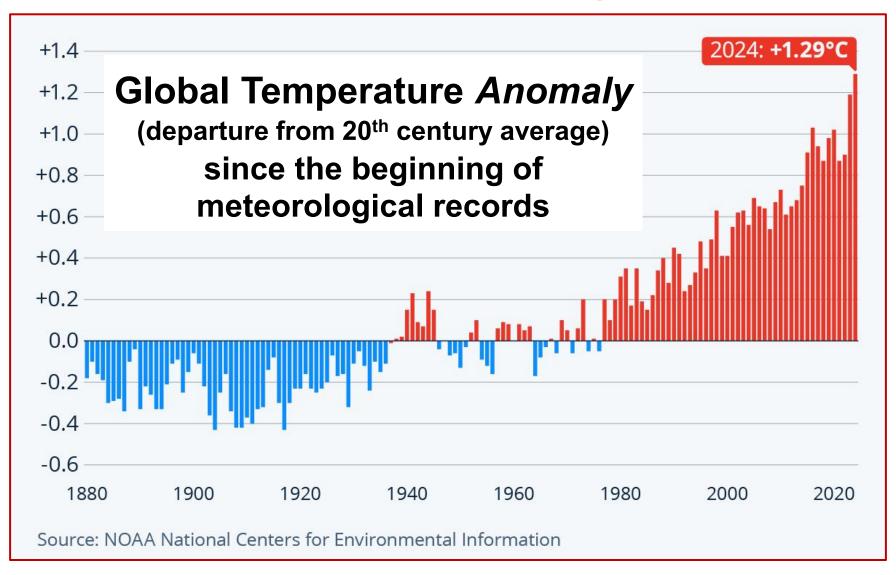
Famous Graph: HR (Hertzsprung-Russell) Diagram



- Created in 1910:

 a major step towards
 our <u>understanding</u>
 of stellar evolution
 or "the lives of stars".
- Temperature (x) vs Luminosity (y) plot.
- Stars tend to group into certain areas; most of the stars occupy the region in the diagram along the line called the main sequence.
- During that stage stars are fusing hydrogen inside their cores.

Most Watched Graph: Climate Change



Measurement

- the assignment of numbers to objects or events
- a type of quantitative observation made with a measuring instrument
- includes both a number and a unit
- a comparison against a specified (known) quantity
- units of measurement are essentially arbitrary: people make them up and then agree to use them

Measuring is an important part of everyday life!

What can we measure? How can we measure? Why do we measure? How well can we measure?

WHAT can we measure?

And HOW?

- Length
- Distance on land
 - Depth of water
 - Mass
 - Time
 - Temperature
 - Electric current
 - Light
 - Color

- ✓ Ruler
- ✓ Measuring Chain/Tape
- ✓ Rod/Cable/Sonar
- ✓ Weighing scale
- ✓ Clock, timer
- √ Thermometer
- ✓ Ammeter
- ✓ Photometer
- √ Spectrometer

