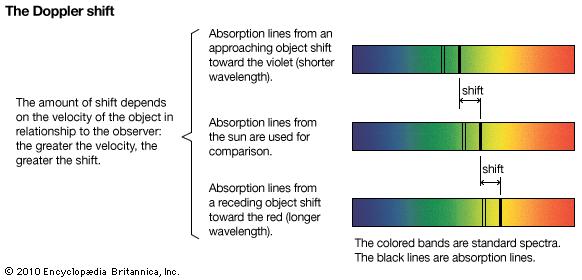
Academic Earth Science

October 3, Tuesday: B Day

* You will need your agenda and attached notes from last class

**WARM-UPS:**

1. Complete the VENN Diagram comparing/contrasting RED SHIFT and BLUE SHIFT.
   1. Work with your partner
2. Determine if the star is moving TOWARD the observer, AWAY FROM the observer, or is STATIONARY.
   1. EXPLAIN your answer



Left is blue, Right side is red.

1. \_\_\_\_Shift
2. \_\_\_\_Shift

Standard: Stationary

**OBJECTIVES:** Astronomy: Stars

1. Review of Spectra and Doppler Effect
2. Life Cycle of Stars: Introduction:

NASA simulation: <https://www.youtube.com/watch?v=WP5HA7fKDXk> (Spanish subtitles)

<https://www.youtube.com/watch?v=H8Jz6FU5D1A> (Spanish subtitles)

<https://www.youtube.com/watch?v=CmoVFBrEEuQ> 1 minute stellar evolution (Spanish subtitles)

1. Diagram: Life-cycle of Stars
   1. Copy the information on the PROMETHEAN on your notes sheet

**HOMEWORK:**

1. ***COMPLETE the Doppler Effect & Spectra TEST REVIEW Worksheet***
2. ***Complete the Energy in Stars and Production of Visible Light Spectra***

Energy in Stars & the production of Visible Light Spectra

Surface of sun =

Energy emitted as (identify the λ)

Atmosphere of star: Spectrum produced =

Interior of Star – Type of spectrum produced:

**Materials that emit visible light spectra**: Complete the chart

|  |  |  |
| --- | --- | --- |
| **MATERIAL** | **TYPE OF VISIBLE LIGHT SPECTRUM** | **DESCRIPTION** |
| **HOT (heated) GAS** |  |  |
| **Hot, glowing solid** |  |  |
| **Hot, glowing liquid** |  |  |
| **Heated (hot) elements** |  |  |
| **Interior of stars (hot, compressed gas)** |  |  |
| **Continuous spectrum moves through a cool gas** |  |  |
| **Glowing light bulb** |  |  |

