## NOTE:

This document contains both the pre- and post- test and the pages are labeled accordingly.

# The Classification of Stellar Spectra <br> <br> Pre-test 

 <br> <br> Pre-test}

| Name | Date |
| :--- | :--- |
| Graduation Date ___ Major |  |

1. How does an astronomer determine the spectral classification of a star?
2. Here are spectral displays of three stars. Which of the two are the same spectral type?


Figure A


Figure B


Figure C
3. Using the diagram, determine which one of these two stars has the highest temperature. Circle the correct answer.


## Star 1



Star 2
4. When taking spectra, why do astronomers expose longer for faint stars than bright stars?
5. Two stars with the same spectral type, have the same characteristics:

| a. | Luminosity |
| :--- | :--- | :--- |
| b. | Distance |
| c. | Temperature |
|  | $\square$ |

6. Other than the spectra, what data does the astronomer need to have to determine the distance of a star?

# The Classification of Stellar Spectra Post-test 

| Name | Date |
| :--- | :--- |
| Graduation Date______ Major |  |

1. How does an astronomer determine the spectral classification of a star?
2. Here are spectral displays of three stars. Which of the two are the same spectral type?


Figure A


Figure B


Figure C
3. Using the diagram, determine which one of these two stars has the highest temperature. Circle the correct answer.


## Star 1



Star 2
4. When taking spectra, why do astronomers expose longer for faint stars than bright stars?
5. Two stars with the same spectral type, have the same characteristics:

| a. | Luminosity |
| :--- | :--- | :--- |
| b. | Distance |
| c. | Temperature |
|  | $\square$ |

6. Other than the spectra, what data does the astronomer need to have to determine the distance of a star?
