

## Star Emission Spectrum Worksheet

14 points

The following pages contain information about the spectra of specific elements and the spectra of 5 stars. Worksheet 1 contains the spectra for 7 elements commonly found in stars. These spectra do not show colors, however light at the 4000 angstroms ( $4.0 \times 10^{-7}$  m) end of the spectrum is violet and light at the 6800 angstroms ( $6.8 \times 10^{-7}$  m) end of the spectrum is red. Worksheet 2 shows the spectra from 5 different stars. Obviously, stars are made of a variety of elements. Use these worksheets to answer the following questions.

**10 points**

1. What elements are in each star? Check the box if that element is present.

	Hydrogen	Iron	Neon	Sodium	Lithium	Magnesium	Helium
Star 1							
Star 2							
Star 3							
Star 4							
Star 5							

**1 point**

2. What elements are in every star?

**1 point**

3. What stars contain all seven elements?

**1 point**

4. How is it possible for scientists to know the composition of stars without traveling to the star?

**1 point**

5. True or false, every gas has a unique set of spectral lines that help identify the gas.

# Star Spectrum Answers Sheet

**Thirumalaisamy P.  
Velavancorresponding**



## Star Spectrum Answers Sheet:

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