

Analysis of Stars (grades 10-12)

The following two 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\AA end of the spectrum is violet and light at the 6800\AA 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.

What elements are in each star?

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

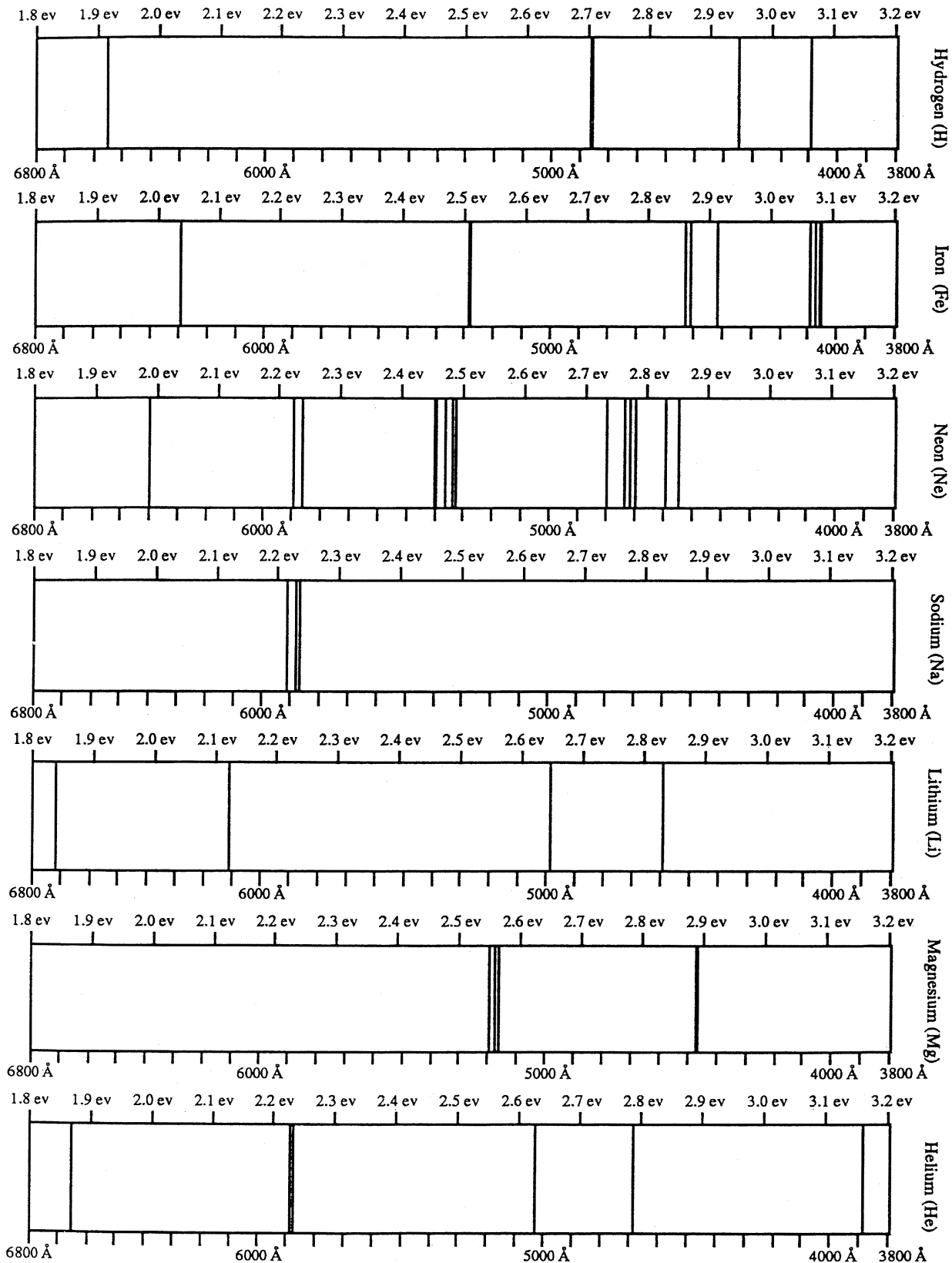
What conclusion(s) can you make from these data?

Worksheet 1

Name _____

Date _____

THE SPECTRA OF SEVEN ELEMENTS



Worksheet 2

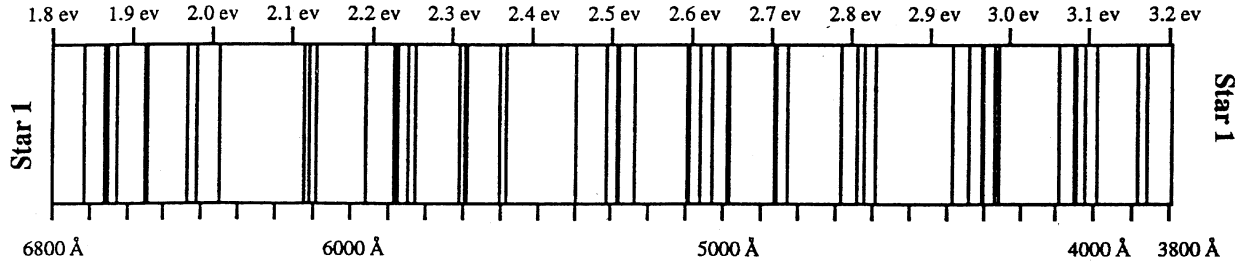
Name _____

Date _____

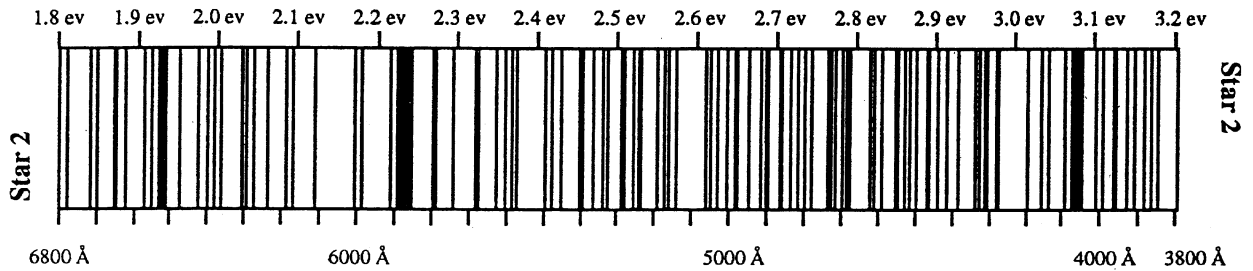
THE ABSORPTION SPECTRA OF FIVE STARS

Determine which of the elements on Worksheet 1 are present in these stars

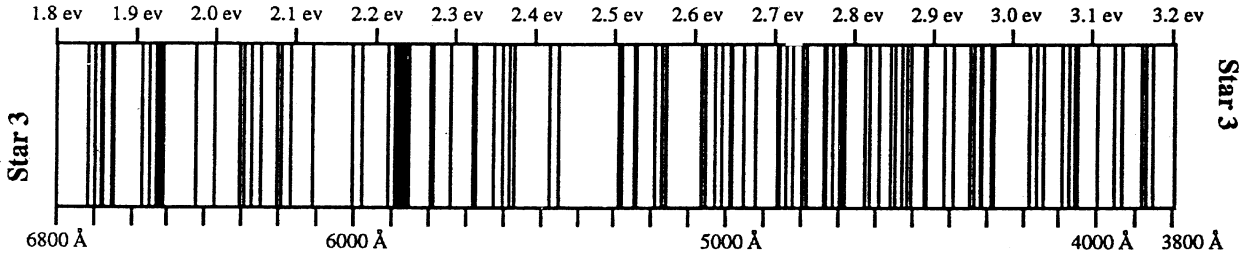
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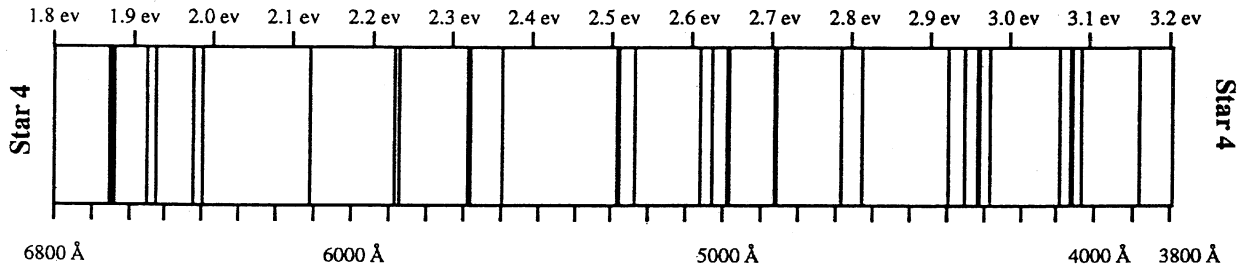
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