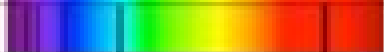


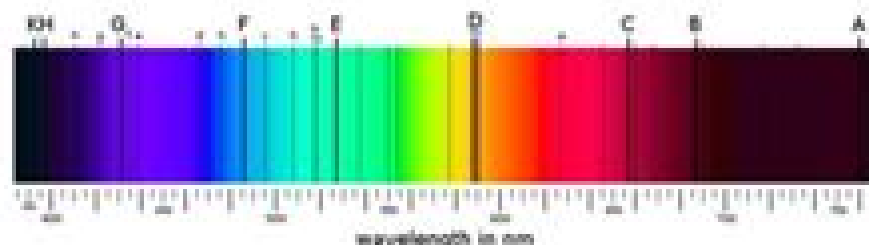
Spectral Analysis

Worksheet

Types of spectra:

Type of spectrum	Photographic example
Continuous (or continuum)	
Absorption (dark line)	
Emission (bright line)	

Here is a spectrum with many of the known spectral lines.



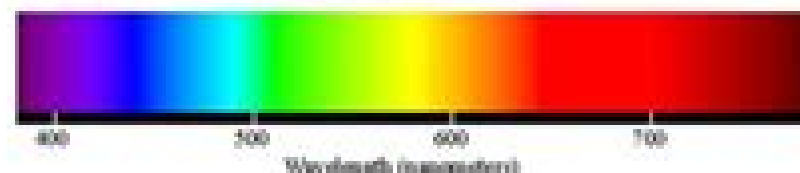
1. What colour is a photon of light with wavelength

- a. 450 nm _____ b. 700 nm _____
c. 523 nm _____ d. 560 nm _____

2. What colour is the emission of hydrogen-alpha, H α ?

3. Draw the main spectrum lines for a star containing Iron and Hydrogen.

(note: Some elements have more than one absorption line)



4. Draw the Emission Lines on a spectrum for a Magnesium lamp. Insert a wavelength values



5. A Nebula of mainly Hydrogen and Mercury (unlikely) is between a star and the earth.

a. What happens to the light as it passes through the nebula

b. The Star is mainly hydrogen and Helium. Complete the spectrum



Designation	Element	Wavelength (nm)	Designation	Element	Wavelength (nm)
y	O $_2$	844.663	a	Fe	485.763
Z	O $_2$	844.694	P	H β	486.134
A	O $_2$	777.419	d	Fe	486.834
B	O $_2$	686.719	e	Fe	438.355
C	H α	656.281	G	H γ	434.047
e	O $_2$	627.641	G	Fe	430.790
D $_1$	Na	589.592	G	Ca	430.774
D $_2$	Na	589.595	h	H δ	430.175
D $_1$ or d	H α	587.5622	H	Ca	396.847
e	H α	544.813	K	Ca	395.348
E $_1$	Fe	527.659	L	Fe	382.044
h $_1$	Mg	518.342	N	Fe	358.121
h $_2$	Mg	518.379	P	Fe	356.132
h $_3$	Fe	516.891	T	Fe	302.108
h $_4$	Fe	516.891	i	Fe	299.444
h $_5$	Mg	516.733			

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