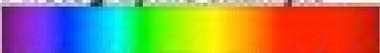
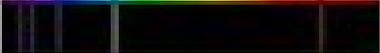


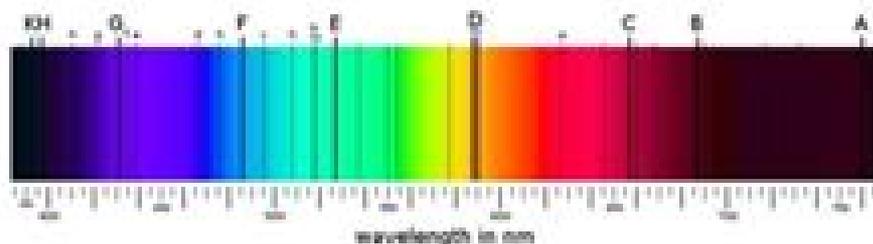
# Spectral Analysis

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.

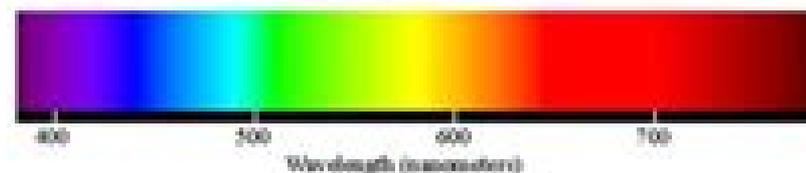


Designation	Element	Wavelength (nm)	Designation	Element	Wavelength (nm)
y	O <sub>2</sub>	844.765	v	Fe	485.763
Z	O <sub>2</sub>	822.694	w	H $\beta$	486.134
A	O <sub>2</sub>	779.379	u	Fe	466.814
B	O <sub>2</sub>	684.719	t	Fe	438.355
C	H $\alpha$	656.281	q	Fe	434.047
e	O <sub>2</sub>	627.641	G	Fe	430.790
D <sub>1</sub>	Na	589.592	G	Ca	430.774
D <sub>2</sub>	Na	589.595	h	H $\delta$	430.175
D <sub>3</sub> or d	H $\alpha$	587.5622	H	Ca	396.847
e	H $\gamma$	544.813	K	Ca	395.348
E <sub>1</sub>	Fe	527.659	L	Fe	382.044
h <sub>1</sub>	Mg	518.342	N	Fe	358.123
h <sub>2</sub>	Mg	517.279	P	Zr	356.132
h <sub>3</sub>	Fe	514.891	T	Fe	352.108
h <sub>4</sub>	Fe	514.891	i	Si	299.444
h <sub>5</sub>	Mg	516.733			

- What colour is a photon of light with wavelength
  - 450 nm \_\_\_\_\_
  - 700 nm \_\_\_\_\_
  - 523 nm \_\_\_\_\_
  - 560 nm \_\_\_\_\_

- What colour is the emission of hydrogen-alpha, H $\alpha$ ?

- Draw the main spectrum lines for a star containing Iron and Hydrogen. (note: Some elements have more than one absorption line)



- Draw the Emission Lines on a spectrum for a Magnesium lamp. Insert a wavelength value.



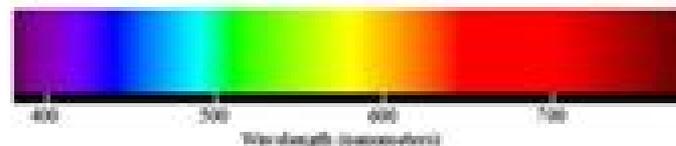
- A Nebula of mainly Hydrogen and Mercury (unlikely) is between a star and the earth.

- What happens to the light as it passes through the nebula

\_\_\_\_\_

\_\_\_\_\_

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



# Analysis Of Spectral Lines Answers

**H Kauffman**



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