

**The Sun and Solar Wind:
A Search for the Beginning**

Here Comes the Light!

REPORTING/DATA SHEET

Name of spectroscopist(s) "in training": _____

PART 1

Wavelength		Frequency	Visual appearance (color)
in nanometers (nm)	in Ångstroms (Å)	(show units)	of this light
700			
	6500		
		5.07×10^{14} _____	
	5250		
490			
		1×10^{15} _____	

PART 2

Describe similarities and/or differences here:

What wavelengths of visible light are found in the spectrum of hot glowing objects?

PART 3

Describe the spectrum here.

How does it differ from that of a hot, glowing object?

Calibration factor for the spectroscope: _____

PART 4

Write your conclusion here:

PART 5

Write your report here: (Use the back of the page if additional space is needed.)

PART 6

Write your report here:

PART 7

Table of Strong Fraunhofer Lines

<u>Emitting Atom or Ion</u>	<u>Wavelength (nanometers)</u>
Mg+	279.5
Mg+	280.2
Mg	285.2
Fe	373.5
Ca+	393.4
Ca+	396.8
Ca	422.6
Fe	438.4
Mg	518.4
Na	589.0
Na	589.6
Ca+	849.8
Ca+	854.2
Ca+	866.2

Identity of elements on sun here: