	I	Name:		<u> </u>	□ 05 □ 06		
	/26	Date of lab:	Due date:	□ 02 □ 03 □ 04	□ 06 □ 07 □ 08		
SNC1D		Lab	Lab: Spectroscopy		A		
	•	be determining the spe objects seen in the nigh	ectrum of various elements, then de t sky.	etermining the elements	5		

Observations

Write	the name of the element from the list on the	e left beside its sp	pectrun	n of abs	sorption	lines	on the r		
Element with selected absorption wavelengths in nm		Absorption Spectrum							
	prod wavelengths in im	1. <u>Carbon</u>		*	*	*	*		
Hydro	ogen 433, 486, 656			· *	*	*	· * ·		
Helin	m 447, 502, 587, 668		300	400	500	600	700	800	
TTCITA	117, 302, 307, 000	2		,	X	*	*		
Example: Carbon 427, 515, 600, 678			300	400	 	600	700	800	
Sodiu	um 580,589			*	*	*	K		
		3		· *	· *	*	K		
Calci	um 429, 527, 593, 645		300	400	500	600	700	800	
Iron 4	417 to 433, 516,562, 619			*	*		*		
Merc	ury 436, 546, 579	4	300	400	500	600	700	800	
Anal	ysis	E			*	* *			
1.	Determine the composition of each of the Sun & mystery objects. /10	5	300	400	500	600	700	800	
		6				**			
Sun:			300	400	500	600	700	800	
		7.		*	*	*			
#1:		<u> </u>	300	400	500	600	700	800	
		C		***	(**	***		
		Sun			(**** '	**	***		
#2:			300	400	500	600	700	800	
		Mystery #1		 		 	>>>		
			300	400	*** *** *** *** *** *** *** *** *** **	*** ** 600	700	800	
#3:		Mystery #2		*	*	XX	*		
				- *	*	***	* ' '		
		Mystery #3	300	400	500 ***	600 *	700	800	
		1			. NAV	<u> </u>			
		1	300	400	500	* * * * 600	700	800	

2.	Which of the mystery objects is most like the Sun? Explain.	/3
3.	Which of the mystery objects is least like the Sun? Explain.	/3
4.	Which mystery object, if any, contains sodium?	/1
5.	Suppose you were to analyse the light from the full Moon with a spectroscope. Predict the spectr that you would see. Explain your answer.	ra /3