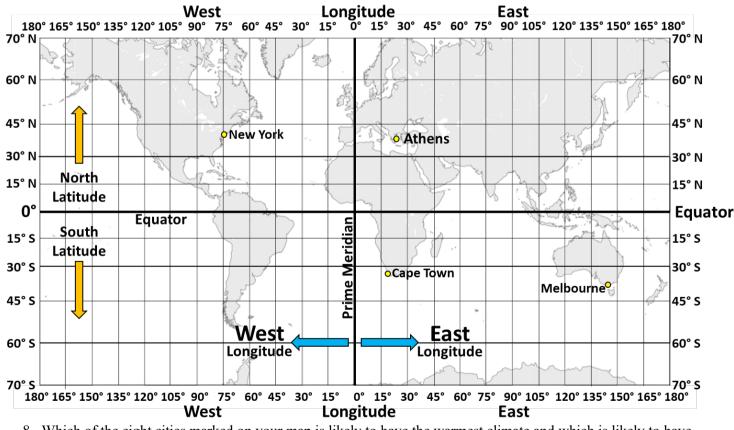
	Sh	edding Light	t on the Sun and	d Earth Episode	1: Se	asons Name	:				
t A	1.	. The sun provides both and . The hottest season is and			l		to everything on Earth.				
Fa a	2.	The hottest season is and				coldest season is					
t B	follows summer and is characterised by falling to			tem	peratures	follows winter and is					
Par		characterized by temperatures.									
	3.	Why do plan	Why do plants grow more during spring and summer?								
こせ	4.	Explain (with words and a diagram) the reason that we have days and nights.									
E E											
	5. Why is a day 24 hours long?										
	6.	With respect to the Earth and the Sun, what is a year?									
	7. (a) Use the map below to find the latitude and longitude of Melbourne, New York, Athens, and Cape Town										
(b) Use the co-ordinates in the table on the right to mark in the location of Nairobi, Cairns, Montevideo, and								eo, and			
	Anchorage. Remember: Latitude: how far from the equator (N or S); Longitude: how far from the prime meridian (W or E))		
		City	Latitude	Longitude		City	Latitude	Longitude			
		Melbourne				Nairobi	1°S	37°E			
		New York				Cairns	17°S	146°E			
		Athens				Montevideo	35°S	56°W			

City	Latitude	Longitude
Melbourne		
New York		
Athens		
Cane Town		

City	Latitude	Longitude			
Nairobi	1°S	37°E			
Cairns	17°S	146°E			
Montevideo	35°S	56°W			
Anchorage	61°N	150°W			



8. Which of the eight cities marked on your map is likely to have the warmest climate and which is likely to have the coolest climate? Why?

9. If it isn't already marked, place a mark on the map of your city or town and determine its latitude and longitude. City or town: ; Latitude: _; Longitude:

		The angle of Earth's axis of rotation with respect to the orbital plane is Use the diagram at right to explain why the							
		Southern Hemisphere experiences summe and the Northern Hemisphere experiences winter when it is in the position shown.							
				→		F			
12	2.	Label the four important dotted lines on the diagram above.							
		March 21st /			Decem	On around ber solstice o	ccurs. It is	often calle	d the
	Jun	e 21st/	٠. ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ	December 21s	hemisp	here and the	Soistic	e in the sou	unern
			`			in the north	_	here. On th	is day,
	1	===	• é =		the sun	is directly ov	er the		
	7	The state of the s			The nig	ghts in the sou			·
			5	and the days are In the northern hemisphere, the nights are and the days are 14. On around March 21st and September 23rd					
		, September 23rd		every year, the two occur.					occur.
		The sun is directly over the		Day	time last ap	proximately		hours a	nd
15		night time also lasts about h On around every yea	ours.	Iuna salsti	ioo 00011 r s	It is often and	lad the		
13).	solstice in the southern hemisphere and the	ir, me . e	June soisu	solstic	e in the north	nea me ern hemisi	nhere. On tl	nis
		day, the sun is directly over the			5015110		, , , , , , , , , , , , , , , , , , , ,	pinere. on u	
16		The tropics don't typically get four season	s, but	only two:	the	an	d the		•
Fart E		RAINFALL and AVERAGE TOP TEMPERATURE for TOWNSVILLE 17.	Writ	e a brief d	escription	of Townsvill	e's rainfall	and tempe	rature
		350 300 data.							
		250 250 25 and 2							
		250 2 25 3 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3							
		50 5 5 18.	Use	the interne	et to find c	limate data fo	or the city y	you live in	Fill in
18. Use the internet to find climate data for the table and then complete the climate graph. (E									
ΔΙΝΕΔΙΙ	Lan			nate section.		<i>U</i> 1			
350			⁵ (2)		Data for t				
300			<u>.</u> د د	Month	Rainfall (precipitation)	Average	Month	Rainfall (precipitation)	Average
250			eratu eratu		(mm)	Daily		(mm)	Daily
200			Temperature	Jan		High (°C)	Jul		High (°C)
150			.5 P	Feb			Aug		
			<u>≓</u>	Mar			Sep		
100			ge Da	Apr			Oct		
50		5	vera	May			Nov		
0		N FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC	Ā	June			Dec		

19. On the map on Page 1, mark in with a straight line the Tropics of Capricorn and Cancer, and the Polar Circles.

