Light and Latitudes - Seasons Across the Continents

(from a lesson plan found at SkyTellers/http://www.lpi.usra.edu/education/skytellers/seasons/activities/light.shtml

Materials

- Graph paper
- > Colored pencils
- > Annual data tables of daylight hours for unidentified cities

Safety Concerns: None.

Procedure

- 1. Look at your copy of the handout *Daylight Hours Across the Globe.* Select two of the unknown cities.
- 2. As you make your graph (make a *line graph;* be sure each city is identified and graphed in a different color), number of daylight hours in your city for each month of the year on their graph.
- 3. After completing your graph, answer the questions on the back of the graph paper.

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1.	Which seasons have more daylight hours? (identify months and seasons!)
2.	Which seasons have fewer daylight hours? (identify months and seasons!)
3.	How does this compare with the time of year the seasons occur here in Utah?
	Based on the data, is your city in the Northern or Southern Hemisphere? How do u know?
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Daylight Hours Across the Globe

Time is indicated as number of hours (h) and number of minutes (m)

City	1-Jan	1-Feb	1-Mar	1-Apr	1-May	1-Jun	1-Jul	1-Aug	1-Sep	1-Oct	1-Nov	1-Dec
Α	10h 34m	11h 00m	12h 18m	12h 25m	13h 07m	14h 18m	14h 24m	14h 00m	12h 40m	12h 35m	11h 11m	11h 20m
В	14h 31m	13h 22m	13h 20m	12h 29m	11h 04m	11h 11m	11h 05m	11h 29m	11h 32m	12h 20m	13h 49m	14h 24m
С	12h 12m	12h 10m	12h 08m	12h 06m	12h 04m	12h 03m	12h 03m	12h 04m	12h 05m	12h 07m	12h 09m	12h 09m
D	17h 32m	15h 27m	13h 33m	11h 22m	10h 03m	8h 32m	8h 17m	9h 27m	11h 22m	12h 46m	14h 53m	16h 33m
Ε	4h 53m	7h 02m	10h 03m	13h 35m	17h 36m	21h 17m	22h 09m	18h 04m	15h 16m	11h 19m	8h 36m	5h 31m
F	12h 04m	12h 04m	12h 05m	12h 07m	12h 50m	12h 51m	12h 11m	12h 10m	12h 08m	12h 06m	12h 04m	12h 03m
G	15h 03m	13h 45m	13h 20m	12h 24m	11h 26m	10h 03m	10h 36m	11h 07m	11h 23m	12h 24m	14h 08m	14h 14m
Н	9h 12m	10h 15m	11h 04m	13h 31m	15h 18m	15h 42m	16h 34m	15h 36m	13h 22m	11h 41m	10h 39m	9h 24m
I	24h 00m	24h 00m	19h 01m	14h 40m	0h 00m	0h 00m	0h 00m	0h 00m	7h 14m	15h 14m	24h 00m	24h 00m

