



# Our Birthdays

Name \_\_\_\_\_

Birthday \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
(month) (day) (year)

How many candles will be on your cake on your next birthday? \_\_\_\_\_

Go to the Time and Date website and use the sun calculator to answer the following questions. Note: Be sure to select your birth date and our location here at school.  
(<http://www.timeanddate.com/worldclock/sunrise.html>)

1. What time will the sunrise occur on your next birthday? \_\_\_\_\_
2. What time will the sunset occur on your next birthday? \_\_\_\_\_
3. How many hours of daylight will there be on your next birthday? (See column titled "Length of Day") \_\_\_\_\_

4. In the table, record the length of day for your next birthday and for the rest of your classmates.

Name	Birthday	Length of Day (Hours and minutes)

5. Compare the length of day for the birthdays in your table. Are they all the same? Do you notice any patterns or connections between the time of year and length of day?

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Name \_\_\_\_\_

Making Sense of  
**Our Birthday Graphs**

Answer the questions below. Be sure to refer to your graphs by title and use them to provide evidence to support your answers. Note: These questions all refer to the Northern Hemisphere.

1. During which month are the days the longest (most hours of daylight)?

\_\_\_\_\_

2. During which month are the days the shortest (least hours of daylight)?

\_\_\_\_\_

3. How do your graphs support this conclusion?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. What is the relationship between distance from the equator and variation in the length of day?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. How do your graphs support this conclusion?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

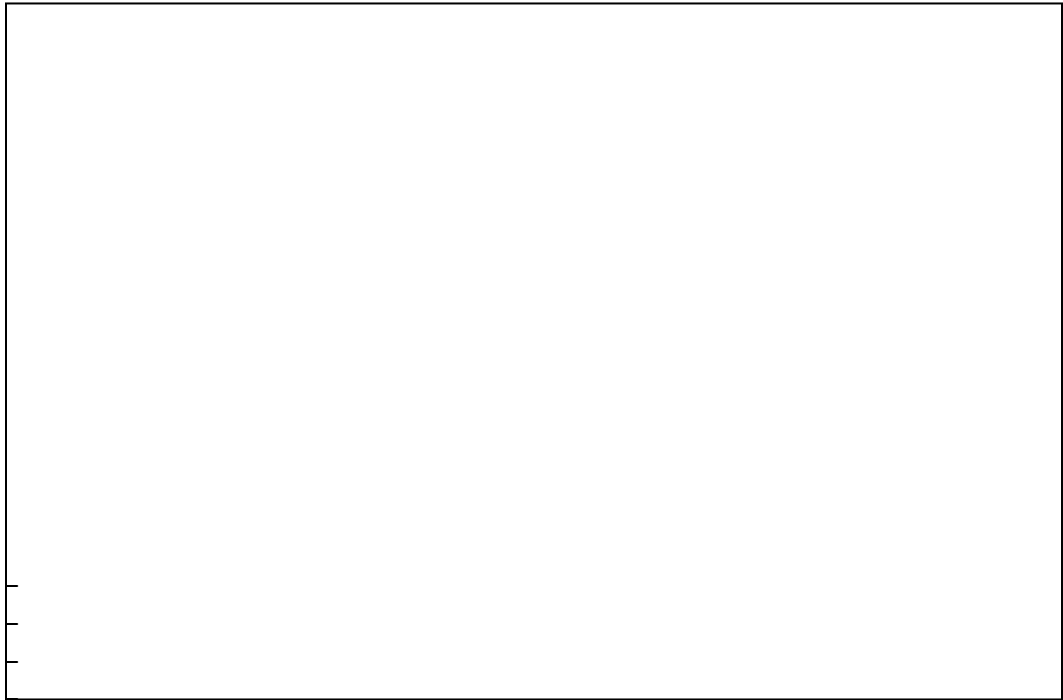
6. Julie was born on June 21<sup>st</sup>. Use a sunrise/sunset app or website to find the hours of daylight for her next birthday in these two locations:

Anchorage, Alaska \_\_\_\_\_ Miami, Florida \_\_\_\_\_

7. In which location would Julie experience the most hours of daylight on her next birthday?

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8. Use words and pictures to explain why there are different amounts of daylight for these two locations on the same day.



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