

Name: \_\_\_\_\_

# SEASONS

## Session 2 - 3: Apparent Path of the Sun in the Sky

### A. Make a prediction:

I think the Sun's apparent path in the sky each day is \_\_\_\_\_ throughout the year.  
< the same / different >

If you think it is the same, explain *why* it is the same.

If you think it is different, describe *how* it is different.

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**B. Collect data for Boston:**

Season and date	Marker Color (on SunTracker)	Sun Angle at Midday (in degrees)	Length of Day (in hours)
Winter (December 21)	blue		
Spring (March 21)	green		
Summer (June 21)	red		
Fall (September 21)	black		

**C. Compare and analyze data for Boston:**

1. Which season has the highest Sun angle at midday? \_\_\_\_\_
2. Which season has the lowest Sun angle at midday? \_\_\_\_\_
3. Which season has the longest day length? \_\_\_\_\_
4. Which season has the shortest day length? \_\_\_\_\_
5. Which seasons have the same Sun angle at midday / day length? \_\_\_\_\_
6. Was the Sun ever directly overhead in Boston? \_\_\_\_\_

**D. Record your ideas:**

How do you think the Sun's height in the sky and the length of day affect temperature on Earth?

1. Here are some ways I think the Sun's **height in the sky** affects temperature:

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2. Here are some ways I think the **length of day** affects temperature:

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