

## Sunlight & Soil

Name(s) \_\_\_\_\_

Use the weather instruments provided to keep a record of each condition.  
Try to take your measurements at the same time every day.

Day	Time	Air Temperature	Soil Temperature	Length of Day	Cloud Cover
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					

**Air Temperature** - Record temperatures in both Celsius and Fahrenheit.

**Soil Temperature** - Record temperatures in both Celsius and Fahrenheit.

**Length of Day** - Consult a newspaper or almanac to find this information.

**Cloud Cover** - Estimate the percentage of cloud cover at the time of your observation.

**Assignment:**

Use the information you have created to construct a two graphs to show:

- (1) the relationship between length of a day and soil temperatures and
- (2) the relationship between air temperature and soil temperature.

**Answer the following questions related to this experiment.**

(1) Did you discover a relationship between the two variables: length of a day and soil temperature? Explain.

(2) Did you discover a relationship between the two variables: air temperature and soil temperature? Explain.

(3) Does the amount of cloud cover play a role in your experiment?

(4) Was the soil temperature consistent throughout the recording area? Did your measurements match those taken by fellow students? Why or why not?

(5) What other questions related to this experiment would you like to investigate?

**Staple your graph page to this paper!**