

Directions: For the days you leave your tape outside, write down the weather conditions on the table below.

Day	Average Wind Speed (mph)	Average Wind Direction	Precipitation (inches)	Humidity (percentage)
1				
2				
3				

After every group is finished, you'll collect data from everyone and write it on the table below.

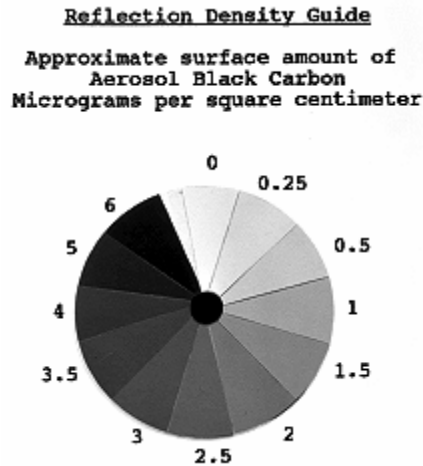
Group	Black Carbon Level	Average Wind Speed (mph)	Average Wind Direction	Precipitation (inches)	Humidity (percentage)
1					
2					
3					
4					
5					
6					
7					
8					

9					
10					

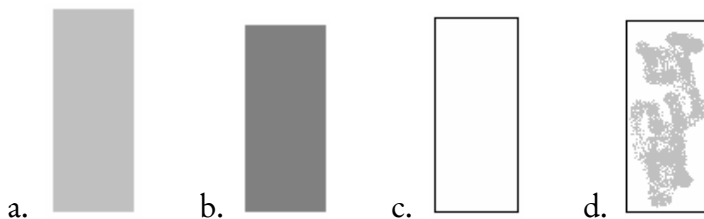
Assessment Questions

1. Black carbon and other pollutants that enter the atmosphere through car exhaust can be affected by
 - a. plate tectonics
 - b. weather and climate
 - c. the rock cycle
 - d. tides

2. An athalometer measures the amount of black carbon in the air. The greyscale below shows how to determine the amount of black carbon in a sample of air.



Which of the following samples shows the most polluted air sample?



3. A student collected a samples of black carbon from an athalometer on multiple days with different weather. Which day do you expect to have the highest amount of black carbon?
 - a. A day with high temperature and low wind speed.

- b. A day with low humidity and low wind speed.
- c. A day with high wind speed and low precipitation.
- d. A day with low temperature and low wind speed.