



Hawk Mastery Date: August 31-Sept. 4

7th Grade Science

Name: _____ Period: _____

Students: Please answer these questions and turn in by Friday. **THIS IS FOR A GRADE** so work your hardest!

1. A student recorded the speed of several blue cars versus several red cars over the course of 1 day. The average speed of red cars was 70 mph, while the average speed of blue cars was 68 mph. The student concludes that red paint makes cars go faster. Which statement identifies an error in the student's conclusion?
- The conclusion was made based on two types of cars.
 - The observation was made on several highways.
 - The observation shows information for several times of day.
 - The conclusion claims that there is a cause and effect without evidence.

The table below contains weather data for two cities.

Month	City X Temperature (°C)	City Y Temperature (°C)
January	-6	10
February	-3	12
March	3	16
April	9	21
May	15	24
June	21	28
July	23	29
August	22	29
September	18	26
October	12	21
November	4	16
December	-3	11

2. Which conclusion is best supported by the data in the table?
- City X is further from the equator than City Y.
 - City X has higher humidity than City Y.
 - City X receives more rainfall than City Y.
 - City X has lower wind speeds than City Y.
3. A student observes a tree with small needle-like leaves that stay green year round. Which conclusion can the student draw from the shape of the leaves?
- The leaves of the tree do not perform photosynthesis.
 - The leaves of the tree have an illness that stunts their growth.
 - The leaves of the tree are nonfunctional.
 - The leaves of the tree are intended to reduce water loss.



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4. By inserting a gene into crop plants, scientists have developed plants that are resistant to insects. If an insect eats the plant, the insect dies. Which practice is unnecessary with this new plant variety?

- a. eroding the land by tilling
- b. overproducing food crops
- c. removing weeds from crops
- d. spraying plants with pesticides

The table below shows the relative amount of elements in soil from the moon.

Moon Soil Composition	
Element	Relative Amount
Oxygen	42%
Silicon	21%
Iron	13%
Calcium	8%
Aluminum	7%
Magnesium	6%
Other	3%

5. Which graph best shows the data from the table?

