

Science 1 ~ Nature Of Science (NOS) Study Guide ~ **Test: Thursday 9/8/16 and Friday 9/9/16**

1. The three branches of science are:	Life, Earth, Physical
2. True or False: A. Science is only important to scientists. B. Scientists always agree on everything. C. People use science in their everyday lives. D. Science is very interesting, but not very useful.	False False True False
3. What is a Scientific Theory?	Explains "Y" something happens
4. Describe a Scientific Law.	Describes a pattern/rules in nature Explains observations and events
5. Write an example of a fact: (Can be proven)	Ex: More White cars are sold every year than any other color.
6. Write an example of an opinion: (Based on own thought/attitude)	Ex: Ms. Griffin Is the BEST Science Teacher!
7. Which of the following can be studied through scientific inquiry? A. Is it fair to have more than 1 best friend? B. Do the colors purple and orange look good together? C. What type of crust makes the best pizza? D. If someone plays the violent video games are more likely to display violent behavior.	D
8. What instrument is used to measure the following: A. Temperature B. Wind Speed C. Humidity	A. thermometer B. Anemometer C. Hygrometer
9. What is the SI system's base unit?	Gram
10. Fill in the SI System meanings: K H D U D C M	Kilo 1,000 Hecto 100 Deka 10 Unit (Gram) 1 Deci 0.1 Centi 0.01 Mili 0.001
11. True or False If you are careful while measuring, you can get an exact measurement.	False: there is always some uncertainty in measurements.
12. How many significant digits are in the following numbers: A. 21,5000 B. 0.076 C. 0.7400 D. 683	A. 3 (215) B. 2 (76) C. 4 (7400) D. 3 (683)
13. What could you use to categorize the following information: (Mean/median/Mode/Range) Dog, dog, cat, bird, dog, cat, bird, bird, bird, dog, cat, dog	Mode (What occurs the most)
14. How do you find the range?	Order the data from smallest to largest. Subtract the smallest amount from the largest amount.
15. Define: Independent variable: Dependent variable:	IV: variable I change DV: What is being measured. What changes based on the change of IV.
16. What is the best way to test a hypothesis?	Design and perform an experiment
Matching	
A. First B. Second C. Third D. Fourth __ 1. Identify the problem __ 2. Gather information through research __ 3. Testing the hypothesis __ 4. Develop a hypothesis	1. A 2. B 3. D 4. C