

Physical Science
Week 1: Text pp. 3-17

True (+) or False (0): Write all answers on the answer sheet included below.

1. The most important part of an equation is the equal sign (=).
2. In an equation, the items on both sides of the equal sign do not have to be equal.
3. Mathematics is often called the language of science.
4. Mathematics can be a brief way of expressing physical truth.
5. Precision concerns how closely a measurement reflects the actual value.
6. 19,000,000,000,000,000,000 can be written 1.9×10^{18} .
7. A minus power (10^{-3}) indicates a value greater than 1.
8. SI is another name for the metric system.
9. A kilometer is a longer distance than a centimeter.
10. The prefix milli means 1/100.
11. There are 100 centimeters in a meter.
12. A liter is the same volume as 1000 cubic centimeters.
13. A kilogram weighs more than a pound.
14. A meter is a little longer than a yard.
15. One US gallon equals 1 liter.
16. The freezing point of water is 32 degrees on the Celsius scale.
17. Normal human body temperature is 37 degrees Celsius.
18. 0 degrees Kelvin is the freezing point of water.
19. The scientific method consists of 3 major steps.
20. The first step in the scientific method is experimenting.
21. A hypothesis is an unproven idea.
22. A theory is more proven than a scientific law.
23. Scientific laws represent man's best understanding of how God's universe works.
24. Galileo said that without air resistance, heavy and light objects fall at the same rate.
25. Scientific laws are sometimes revised.

Fill in the answers on the answer sheet:

1. Science put to use is called _?_.
2. 6.02×10^6 is what number?
3. The F.P.S. system is also known as the _?_ system.
4. Nano means _?_.
5. A kilometer is equal to _?_ meters.

6. Worldwide, which system has been accepted as the standard for scientific research and technical purposes?
7. A kilometer is about ? mile.
8. Does an astronaut's mass change when they go to the moon?
9. Does an astronaut's weight change when they go to the moon?
10. A penny has a mass of about ? grams.
11. What is the boiling point of water Celsius?
12. When we say it is 80 degrees outside, which temperature scale are we using?
13. What temperature scale is used by most nations of the world?
14. How many degrees are there between the freezing point and the boiling point of water on the Celsius scale?
15. One of the most basic of all scientific assumptions is the universe is ? .
16. Name a known scientific theory (not in your textbook).
17. Name a known scientific law (use your text index under laws, scientific).

Vocabulary - write the definitions for these terms on the answer sheet and be able to explain them next week from memory in your own words . Most are in your glossary (green pages). Page numbers are given

for the others.

- | | |
|---------------------------|--------------------|
| 1. physical science | 11. centi p9 |
| 2. technology | 12. kilo p9 |
| 3. equation | 13. mega p9 |
| 4. significant figures p7 | 14. giga p9 |
| 5. scientific notation | 15. mass |
| 6. F.P.S. system | 16. weight |
| 7. meter | 17. Celsius scale |
| 8. gram | 18. absolute zero |
| 9. liter | 19. hypothesis |
| 10. milli p9 | 20. theory |
| | 21. scientific law |

Physical Science Answer Sheet – Will be collected and checked.

True (+) or False (0):

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Name _____

Fill in the answers:

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Vocabulary:

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