QUIZIZZ Worksheets

Science & Engineering Practices
Total questions: 20
Worksheet time: 16mins
Instructor name: Luke Gilly

Name [   ]

Class [   ]

Date [   ]

1. **One way scientist analyze data is by using _____.**

   a) law

   b) charts and tables

   c) theory

   d) variable

2.

   The information you record in an experiment is called your _____.

   a) inquiry

   b) notebook

   c) conclusions

   d) data

3. A possible explanation to a problem that has not yet been tested.

   a) fact

   b) theory

   c) hypothesis

   d) data

4. A representation that explains an object, theory or complex process

   a) design

   b) black box

   c) model

   d) collaboration

5. Controlled variables do not

   a) change   b) interval

   c) add data   d) happen

6. A good scientific conclusion includes

   a) claim, evidence and reasoning   b) your opinion about how fun it was

   c) hypothesis and ending only   d) pictures in color

7. A quantitative observation includes

   a) colors   b) numbers

   c) words   d) texture

8. Popeye states "Eating spinach will give you added strength." This is an example of

   a) Insanity   b) Reasoning

   c) Evidence   d) Claim

9. How does scientific knowledge change over time?

   a) collecting new information about the natural   b) taking surveys and opinion polls
      world

   c) adding websites on the Internet   d) asking scientific questions

10. Which of the following is a quantitative observation?

    a) The clouds are lower in the atmosphere   b) At the end of the week, the plant heights
       today than yesterday.   were 6 in, 11 in., 4 in., and 8 in.

    c) The butterfly landed and fed from the purple   d) The robin egg is blue with brown specks.
       flowers along the path.

11. Which of the following is a qualitative observation?

    a) The grizzly bear's summer coat is thin and   b) There were two caterpillars eating the leaf.
       yellowish.

    c) The temperature was 24 degrees Celsius.   d) The mass of the sample is 562 grams.
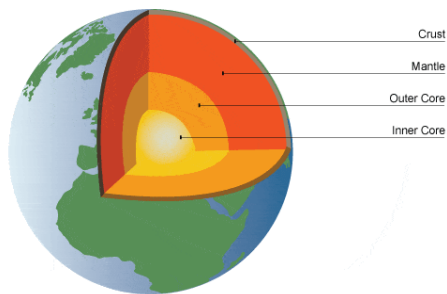
12.

If I give more water to the cucumber plant, then it will grow quickly. This is an example of a(n)
_____.

a) Hypothesis   b) Explanation

c) Inference   d) Observation

13.

A DIAGRAM/DRAWING of the earth is an example of a

a) graph   b) model

c) toy   d) chart

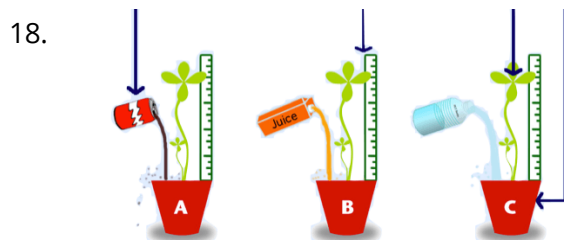14. The variable the is changed on purpose is..

a) Constant   b) Independent Variable

c) Control   d) Dependent Variable

15. The variable that is being tested, counted, or measured and is responding to the independent
    variable is known as

a) Control   b) Constant

c) Independent Variable   d) Dependent Variable

16. Mrs. Goodwyn wants to see if studying time affects test scores...She gives all 6 classes the same assignment but assigns different study times. What is the independent variable?

a) Study time   b) Same assignment

c) Test score

17. Mrs. Goodwyn wants to see if studying time affects test scores...She gives all 6 classes the same assignment but assigns different study times. What is the dependent variable?

a) Study time   b) Same Assignment

c) Test Score

18.

In a well designed experiment, you should change how many variables?

a) only one   b) none at all

c) as many as are needed   d) no more than two

19. Theory or Law??? Is a well-tested EXPLANATION for a wide range of observations and experimental results.

a) Law   b) Theory

20. Theory or Law??? Is a DESCRIPTION of what a scientists expects to happen every time under a certain set of conditions.

a) Law   b) Theory