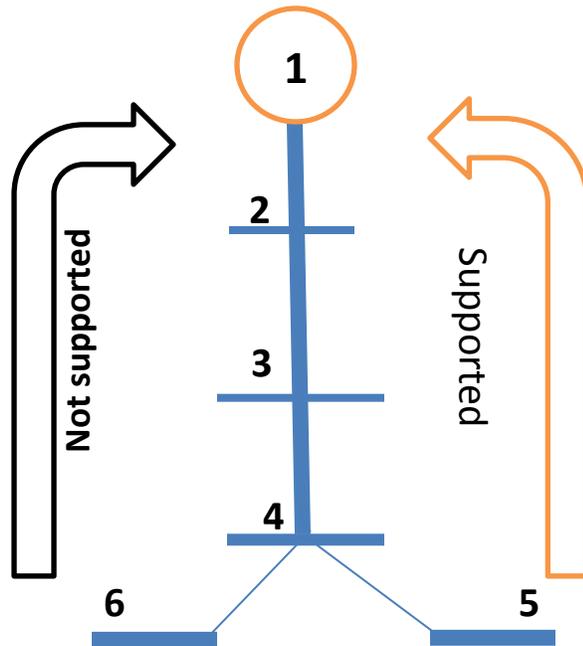


1-6. Put the following terms in the order they follow during proper scientific method:

- A. If hypothesis supported, repeat experiment several times in the same exact way
- B. Experiment and measure data
- C. Organize data and analyze
- D. Question
- E. If not supported, Modify hypothesis
- F. Conclude and Infer



7. Which of these results would be the most reliable?

- a)  $r=0.49$
- b)  $r=0.50$
- c)  $r=0.81$
- d)  $r=0.51$

Use the following for the next two questions:

**H. Dependent variable**

**J. Independent variable**

**K. Control**

8. The variable we manipulate in the experiment is the \_\_\_\_\_

9. The variable that we measure is the \_\_\_\_\_

10. Which of the following is not one of the three major branches of science?

- a. Earth Science
- b. Social Science
- c. Life Science
- d. Physical Science

11. Which of the following is not an example of a scientific hypothesis:
  - a. Chemistry is more interesting than Geology.
  - b. Some animals can detect ultrasound frequencies that are caused by small earthquakes.
  - c. Certain breeds of dogs can smell tumors in cancer patients.
  - d. Lava takes different forms depending on how it cools.
  
12. What is a rule describing a pattern in nature called?
  - a. Scientific law
  - b. Technology
  - c. Possible explanation
  - d. Theory
  
13. Which of the following is not an example of a model?
  - a. Scale drawing
  - b. Pumpkin
  - c. Recipe
  - d. Map
  
14. What is it called when you combine what you already know with new facts?
  - a. Estimate
  - b. Hypothesis
  - c. Theory
  - d. Critical Thinking
  
15. An educated guess based on what you know and what you observe is called which of the following?
  - a. Hypothesis
  - b. Scientific law
  - c. Conclusion
  - d. Data
  
16. What does it mean to make an inference?
  - a. Change your hypothesis
  - b. Observe
  - c. Draw a conclusion
  - d. Test
  
17. One of the reasons for using models is to:
  - a. Save time, money and lives
  - b. Communicate
  - c. Test predictions
  - d. All of the above

18. A collection of structures that relate to one another is a:

- a. Hypothesis
- b. Sequence
- c. Data table
- d. System

19. The practical application of knowledge learned through science is:

- a. Testing
- b. Technology
- c. Observing
- d. Hypothesizing

20. Scientist can organize and analyze their observations and data using:

- a. Charts
- b. Graphs
- c. Tables
- d. All of these

21. The results of an experiment must be:

- a. Unique
- b. Reproducible
- c. Are always accepted as law
- d. Un-reproducible

22. Physical Science is divided into two general fields:

- a. Chemistry and biology
- b. Biology and geology
- c. Ecology and physics
- d. Chemistry and physics

How well do you think you prepared for this test?

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What contributed to your success in this test? (check all that apply)

- |  |  |
|--|--|
| <input type="checkbox"/> Text Book               | <input type="checkbox"/> Bone Experiment |
| <input type="checkbox"/> Online practice quizzes | <input type="checkbox"/> DHMO activity   |
| <input type="checkbox"/> Discussions             | <input type="checkbox"/> Study guide     |

How can you better prepare for the next test?

What can we do in class that would help you better prepare?