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An Internet Scavenger Hunt about the Scientific Method!

 Directions:  Click on each link below.  Read the article or complete the activity.  Answer the question below each link.

1.  Read ONLY the section called “Reasoning in Science” at <http://www.biology4kids.com/files/studies_scimethod.html>.

        What is the scientific method?

2.  Read the information at:

[https://wayback.archive-it.org/3635/20130719053558/ http://library.thinkquest.org/J001402F/question.htm](https://wayback.archive-it.org/3635/20130719053558/%20http%3A//library.thinkquest.org/J001402F/question.htm)

1. Why do scientists do experiments?

 B.  The first step in the scientific method is to ask a question.  What are 2 reasons why people ask questions?

3.  Read the information at:

[https://wayback.archive-it.org/3635/20130719053608/http://library.thinkquest.org/J001402F/hypothesis.htm](https://wayback.archive-it.org/3635/20130719053608/http%3A/library.thinkquest.org/J001402F/hypothesis.htm)

1. What is the second step in the scientific method?
2. What is a hypothesis?
3. (Fill-in-the-Blanks) The first thing you need in order to form a hypothesis is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  Once you complete the research, you need to decide on a hypothesis that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

4.  Read the information at

 [https://wayback.archive-it.org/3635/20130719053614/http://library.thinkquest.org/J001402F/experiment.htm](%20https%3A/wayback.archive-it.org/3635/20130719053614/http%3A/library.thinkquest.org/J001402F/experiment.htm)

1. What is the third step in the scientific method?

B.  When you design an experiment, you need to make sure that your design does what?

C.  What is a variable?

D.  How many variables do you want to change in your experiment?

 5.  Read the information at

[https://wayback.archive-it.org/3635/20130719053621/http://library.thinkquest.org/J001402F/observing.htm](https://wayback.archive-it.org/3635/20130719053621/http%3A/library.thinkquest.org/J001402F/observing.htm)

A. As you complete an experiment, what should you collect to help you answer your question and form your conclusion?

1. What 2 kinds of data can you collect when completing an experiment?

6.  Read the information at:

[https://wayback.archive-it.org/3635/20130719053628/http://library.thinkquest.org/J001402F/conclusion.htm](https://wayback.archive-it.org/3635/20130719053628/http%3A/library.thinkquest.org/J001402F/conclusion.htm)

1. What is the last step of the scientific method?
2. Why is a conclusion important?