Developing a Controlled Experiment

Directions: Using your knowledge of the Scientific Method, complete the following situations.

1. Define hypothesis?

2. Define experimental variable?

3. Why is it important for an experiment to contain a control?

4. Develop a controlled experiment to back up the following hypothesis:

The temperature of a lake has an effect on a fish's ability to produce viable offspring.

a. **List the equipment needed to carry on this experiment.**

b. **List the steps of the controlled experiment so that any one can follow.**

c. **What is the experimental variable?**

d. **What are the control(s) of the experiment?**

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