Scientific Method: Exercise 1

1. Define each of the follow	wina:
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a) Fact	a statement that can be confirmed.
b) Data	Observations + mensirements made during an experiment.
c) Hypothesis	an educated geness to explain an event
d) Experiment	a test conducted to support/reject
e) Control	variable that is not changed in an experimento provide a comparison
f) Theory	by a great amount of endence over a

2. What characteristics describe a good hypothesis?

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3. True or false?

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4. Patty and Peter wanted to find out if temperature affects the growth of mould on bread. At lunch, they asked nine (9) of their friends to donate a piece of bread for this experiment.

They put nine pieces of bread in nine flasks as follows:

- a) Three of the flasks were kept in a refrigerator (temperature about 4C)
- b) Three of the flasks were kept at room temperature (about 20C)
- c) Three of the flasks were kept in a lab oven at 90C

The nine flasks were examined after four (4) days.
Questions:
1. Give a title for this experiment. Temperature + growth rate of movid.
does terms affect grown of bread mould.
3. Make a hypothesis.
4. What was the major difference between the nine flasks? Temperature's @ which they are kept.
5. Name thee (control for Patty and Peter's experiment.
Three flasks & room temp.
6. Would the flasks need to be closed on top? Explain. No > mould need 02 to undergo cellelar respiration.
7. The students made at least one error in performing the experiment described above. Suggest what this error is and explain how the error could be corrected.
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bread mould growth vates.
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