**Insulation**

Planning and performing an experiment

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| **Purpose** – what you are trying to prove: which material sustains body temp. |
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| **Hypothesis** – correct tense, general statement |
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| **Research** – record your research **and** bibliography |
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| **Equipment** – complete vertical list with amounts and units. requirement needed to carry out the experiment safely |
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| **Procedure** – list, format, simple, all steps recorded |
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| **Variables** – All variables listed. |
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| **Diagram** – diagram which is, labeled correctly showing how the materials are set up at the start. |
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| **Result table**   1. Draw a neat and organized table with TITLE 2. Clearly label the independent and dependent variables with general and specific headings. 3. Include units of measure 4. Average only when necessary. |
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| **Graph** drawn on a separate piece of paper, or done in excel.   1. x and y axes labeled correctly with units, graph titled. 2. Consistently spaced sensible intervals on both x and y-axes. 3. Points plotted correctly **and** line graph(s) drawn neatly and correctly. |
| **Conclusion** –   1. Address the hypothesis 2. Analyze: use data to support (numerical and graph) 3. Unexpected results considered 4. Use of scientific knowledge to explain conclusion 5. Detailed use of scientific knowledge to explain conclusion |
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| **Discussion** –   1. Indicates **two or more** areas of criticisms or errors of the procedure 2. Suggests **two or more** improvements for further experimentation, what would you do differently next time |
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Check your work

Carefully using this sheet!