Lab activity report rubric

Maximum points: 10

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| **Item** | **Max value** | **Value given for** | **Deductions for** |
| Question 1 –background and question | 2 (1 for background, 1 for question and hypothesis) | * Provides context * Provides rationale * Includes clearly stated question * Hypothesis is specific | * Insufficient or irrelevant context, rationale * Vague or unquantified question and hypothesis |
| Question 2 – methods | 2 | * Materials and methods specific and comprehensive * Steps are in order * Ethics, safety, and subject protections described | * Out of order * Vague methods steps * Missing steps or materials * Safety or ethics missing or vague |
| Question 3 – results | 2 (1 point for pictures/  graphs, 1 point for writing) | * Drawings, photographs, or tables and graphs selected appropriately * All data included exactly as recorded * Includes both visual representation and concise written description | * Incorrect visualization method * Missing or altered\* data * Missing either visual representation of data or written summary * Missing labels, titles, or legends |
| Question 4 – discussion | 1 | * Describes meaning of results in context of background and rationale * Answers question and hypothesis * Describes challenges or limits clearly * Suggests plausible further experiments | * Results not tied to context * Question not answered * Challenges or limits not described * No further experiments or experiments are not possible or reasonable |
| Overall - content | 1 | * Demonstrates overall understanding of material * Science or engineering thinking demonstrated | * Major factual inaccuracies * Lack of critical thinking about experiment |
| Overall – presentation | 1 | * Logical flow makes sense, writing style is appropriate * Key points are highlighted * References listed, if used * Section headers present | * Poor flow, no scientific logic * References missing * Whole sections missing * Headers missing |
| Overall – readability | 1 | * Concise * Clear grammar, appropriate word choices * Legible | * Meandering or off-topic * Word choices vague, casual, or inaccurate * Illegible |

Intentionally altering data will result in a failing grade for the assignment.