**Appendix D: Rubric** Activity 3:Motion Machines

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|  | **1** | **2** | **3** | **4** | **5** |
| Purpose of the prototype and  completion of the design plan | The work must be  done again. | The purpose is not  clearly defined AND the design plan contains major errors. | The purpose is not clearly defined OR the design plan contains many errors. | The purpose is clearly defined. The design plan contains a few minor errors. | The purpose is clearly defined. The design plan is  complete. |
| Relevance of the  list of materials and technical diagram | The work must be  done again. | The choice of materials is  partly appropriate, AND the technical diagram contains many errors. | The choice of materials is partly appropriate, OR  the technical diagram contains many errors. | The choice of materials is appropriate. The technical diagram contains a few minor errors. | The choice of materials is appropriate. The technical diagram is complete. |
| Technical diagram complies with safety rules | The work must be  done again. | The prototype does not comply with the technical diagram, OR the work was not done safely. | Many elements of the prototype do not comply with the technical diagram. The work was done safely. | A few elements of the prototype do not comply with the technical diagram. The work was done safely. | The prototype complies with the technical diagram. The work was done safely. |
| Analysis of the prototype operation and suggested  improvements | The work must be  done again. | The prototype does not meet many of the constraints. | The prototype meets most of the constraints, but the suggested  improvements are not very relevant. | The prototype meets most of the  constraints, AND most suggested improvements are  relevant. | The prototype works and meets all the constraint. The suggested improvements are relevant. |