**VIDEO SUBMISSION RUBRIC (including the actual Rube Goldberg Machine)**

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| **CRITERIA** | **LEVEL 0****(0%)** | **LEVEL 1****(50% - 59%)** | **LEVEL 2****(60% - 69%)** | **LEVEL 3****(70% - 79%)** | **LEVEL 4****(80% - 100%)** |
| **Group Members on Video** | Neither group member is visible, it is assumed the project is plagiarized and will be awarded a mark of zero | 1 group member is visible | Some group members are visible | Most group members are visible | Both / all group members are visible |
| **Video Explanation of Steps** | The steps were not explained | Steps were poorly explained | Steps were somewhat explained | Steps were clearly explained | Steps were explained in detail |
| **Video Effectiveness** | The steps could not be seen | The steps were slightly seen | The steps were somewhat easy to see | The steps were easy to see | The steps were clearly and easily seen |
| **Forms of Energy** | No forms of energy were included in the machine | Less than 3 forms of energy were included in the machine | 3 forms of energy were included in the machine but they were hard to identify | 3 easily identified forms of energy were included in the machine | More than 3 forms of energy were included in the machine |
| **Number of Steps** | There were no steps in the machine | Less than 5 steps were included in the machine | 5 steps were included in the machine but they were hard to follow | 5 easy to follow steps are included in the machine | More than 5 steps were included in the machine |
| **Viewing the Steps** | The machine did not have any steps | The steps were present, but could not be seen or understood | The steps could be seen and understood with some difficulty | Most steps were slow enough to see and understand | The steps were slow enough to see and understand |
| **Task Completion** | The machine did not complete the task | The machine completed the task with human intervention at most steps | The machine completed the task with some human intervention | The machine completed the task with little human intervention | The machine did not require any human intervention to complete the task |
| **Materials** | Materials are inappropriate or no materials are used | Makes limited use of appropriate materials | Makes adequate use of appropriate materials | Makes effective use of appropriate materials | Makes innovative use of appropriate materials |
| **Originality / Creativity** | The product is obviously copied from another | Product is not original in design | Product is moderately original in design | Product is of good originality | Product is exceeding in originality  |

**WRITTEN SUBMISSION RUBRIC**

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| **CRITERIA** | **LEVEL 0****(0%)** | **LEVEL 1****(50% - 59%)** | **LEVEL 2****(60% - 69%)** | **LEVEL 3****(70% - 79%)** | **LEVEL 4****(80% - 100%)** |
| **Written Explanation of Steps (including identification of energy transitions and simple machines)** | The steps were not explained | Steps were poorly explained | Steps were somewhat explained | Steps were clearly explained | Steps are explained in detail |
| **Labeled Diagram of the Machine** | The diagram was not completed | The diagram was completed with limited effectiveness | The diagram was completed with some effectiveness | The diagram was completed with considerable effectiveness | The diagram completed with a high degree of effectiveness  |
| **Energy and Speed Calculations** | The calculations were not completed | The calculations were completed with limited effectiveness | The calculations were completed with some effectiveness | The calculations were completed with considerable effectiveness | The calculations were completed with a high degree of effectiveness |
| **Log of Trials / Modifications** | A log of trials was not included | Does not recognize a need to modify the plan | Has difficulty recognizing the need to modify the plan | Modifies the plan when necessary | When necessary, modifies the plan in insightful ways |
| **Use of initiating and planning skills and strategies** | Does not use initiating and planning skills to complete the project in a timely manner | Uses initiating and planning skills and strategies to complete the project in a timely manner with limited effectiveness | Uses initiating and planning skills and strategies tpo complete the project in a timely manner with some effectiveness | Uses initiating and planning skills and strategies to complete the project in a timely manner with considerable effectiveness | Uses initiating and planning skills and strategies to complete the project in a timely manner with a high degree of effectiveness |
| **Expression and organization of ideas and information in oral, visual, and / or written forms** | Written submission is not present or so disorganized as to be unreadable | Expresses and organizes ideas and information with limited effectiveness | Expresses and organizes ideas and information with some effectiveness | Expresses and organizes ideas and information with considerable effectiveness | Expresses and organizes ideas and information with a high degree of effectiveness |
| **Use of conventions, vocabulary, and terminology of the discipline in oral, visual and / or written forms** | Written submission is not present | Uses conventions, vocabulary and terminology of the discipline with limited effectiveness | Uses conventions, vocabulary, and terminology of the discipline with some effectiveness | Uses conventions, vocabulary, and terminology of the discipline with considerable effectiveness | Uses conventions, vocabulary, and terminology of the discipline with a high degree of effectiveness |