Table 1, Ride the MoviesTM Rubric

**[Please update the title – we cannot use a copyrighted name]**

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| --- | --- | --- | --- | --- |
|  | **EXCELLENT!** | **VERY WELL DONE!** | **OK.** | **NEEDS WORK** |
|  | ***I’m the king of the world!***  **(Titanic, 1997)** | ***My precious!***  **(Lord of the Rings: The Two Towers, 2002)** | ***You’re going to need a bigger boat.***  **(Jaws, 1975)** | ***Houston, we have a problem.***  **(Apollo 13, 1995)** |
| **Engineering**  **Design/**  **Labeled Diagram** | Diagram is labeled (both parts and actions), neatly drawn in pencil using appropriate tools, and includes a caption that begins to explain both the action of the ride and the science behind the action.  **Up to 35 points** | Diagram is labeled (parts only, no actions), neatly drawn in pencil and includes a caption that begins to explain either the action of the ride or the science behind the action or both.  **Up to 30 points** | Diagram is submitted but is either not labeled or not neatly drawn in pencil. There is no caption that explains the ride and/or other critical parts of the drawing (title, labels) are missing.  **Up to 20 points** | Diagram is not submitted, is missing a number of critical elements, or does not match the final product in any way.  **Up to 15 points** |
| **Physics**  **Explanation**  **Report and Video** | Three or more physics concepts are thoroughly and accurately explained with respect to the action of the ride designed in the written report. Vocabulary terms defined in class are utilized effectively in the explanation. There is CLEAR evidence of student understanding of the concepts. The report is formatted according to the 8th grade template and references are cited in APA format. The video encapsulates a summary of the written report.  **Up to 35 points** | Three physics concepts are thoroughly and accurately explained with respect to the action of the ride designed in the written report. Vocabulary terms defined in class are utilized effectively in the explanation. There is evidence of student understanding of the concepts. The report is formatted according to the 8th grade template but references are not cited in APA format. The video encapsulates a summary of the written report.  **Up to 30 points** | Only two physics concepts are thoroughly and accurately explained in the written report but there is very little connection to the action of the ride designed. Vocabulary terms defined in class are utilized in the explanation. There is some evidence of student understanding of the concepts but that understanding is incomplete. The report poorly formatted and/or references are not cited in APA format, if at all. The video encapsulates a summary of the written report.  **Up to 20 points** | Only 1 physics concept is explained in the written report but there is little to no connection to the action of the ride designed. Vocabulary terms defined in class are not utilized. There is no evidence of student understanding of the concept. The report is poorly formatted. No references are cited. The video encapsulates a summary of the written report.  **Up to 10 points** |
| **Movie**  **Tie-In** | The movie selected can easily be matched to the action of a theme park ride. The action of the ride designed well represents a specific sequence of action in the movie chosen. The tie-in is obvious to anyone who has seen the movie while also being evocative to those who have not. An explanation of the movie scene or a synopsis of the movie is included in the written report.  **Up to 15 points** | The action of the ride designed well represents the overall theme of the movie chosen. The tie-in is obvious to anyone who has seen the movie while also being evocative to those who have not. A synopsis of the movie is included in the written report.  **Up to 10 points** | The action of the ride designed represents the theme of the movie chosen. The tie-in is less obvious to those who haven’t seen the film, but still evocative. A synopsis of the movie is included in the written report.  **Up to 7 points** | The action of the ride designed does not represent the movie chosen in any way that is easily recognizable. There is no obvious tie-in between the product created and the movie selected. A synopsis of the movie is not included in the written report.  **Up to 5 points** |
| **Creativity and**  **Quality of Work** | The ride engineered is a unique and creative take on Universal’s *Ride the Movies* theme. It is extremely well planned and engineered. It is visibly pleasing to look at. And, if it were an actual ride, it would be very inviting to a theme park patron.  If this was a pair effort, both partners collaborated, cooperated, and remained on task through all steps of the process.  **Up to 15 points** | The ride engineered is a creative take on Universal’s *Ride the Movies* theme. It is well planned and engineered. It has one or two aesthetics, fun, or safety issues that may discourage theme park riders from getting on.  If this was a pair effort, both partners collaborated, cooperated, and remained on task through most steps of the process.  **Up to 10 points** | The ride engineered is a creative take on Universal’s *Ride the Movies* theme. It is well planned and engineered. It has a few aesthetics, fun, or safety issues that would discourage theme park riders from getting on.  If this was a pair effort, both partners collaborated, cooperated, and remained on task with teacher redirection, as needed.  **Up to 7 points** | The ride engineered is a not a creative take on Universal’s *Ride the Movies* theme. It is poorly planned and/or engineered. It has a number of aesthetics, fun, or safety issues that would discourage theme park riders from getting on.  If this was a pair effort, the balance of workload throughout the process was unequitable. [If this is the case, only the partner who did not pull their weight will lose points.]  **Up to 3 points** |
| **BONUS POINTS:**  +1- Ride is something OTHER than a roller coaster (which you just made and explained).  +1- Creative and Attractive Signage  +2- A FlipGrid Video is posted that tells about your movie and why you chose it for this project  +5- Model is a working prototype rather than a model | | | | |

90-100 points A

80-89 points B

70-79 points C

60-69 points D