**C:\Program Files (x86)\Microsoft Office\MEDIA\CAGCAT10\j0216858.wmfMotion & Design~DiscoveryEd.com~Board Builder Rubric**C:\Users\ehoffman\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\DKZ3TLCW\MC900301066[1].wmf

You will be using the DiscoveryEd.com website to create a Board using the key vocabulary terms for this science unit and the concepts that you’ll need to know upon compltion of the unit. Your board will include images, short video clips, and written summaries of many of the different motion and design topics that we are studying this quarter. Please use this rubric as a guide when you are creating your board for this project. You may use your science notes about motion and design, the DiscoveryEd.com website resources, and any other teacher-approved materials from other websites on the Internet (BrainPop and Study Jams).

**Students must add more information than what is listed in each section of this rubric in order to earn a Level 4. \*\***

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| Motion And Design Topics: | Level Available | Level Earned |
| 1.) **Technical Drawing/Prototype**-*Create a text box that explains the differences between a* ***technical drawing*** *and a* ***prototype****. Add an image showing an example of a technical drawing on your board and label it.*  *Next, find an example of a prototype for a popular toy before it was made. Add a picture of the toy before it was made (prototype) and after the changes were made to it (finished product) to your board.* ***Label the prototype and label the finished product.*** | **4** |  |
| 2.) **Force and Motion**-*Look for a science experiment online that will demonstrate what force and motion are and what they mean. How can students “see” the differences and connections between these two (2) science terms? Create only the “Procedures” portion of a lab sheet to explain the steps of the experiment that you found and write them in a text box.* ***Make sure that the procedures for your chosen experiment explain the steps clearly.*** | **4** |  |
| 3.) **Mass and Weight**-*Research and locate a short video clip explaining the differences between mass and weight. Add this video clip to your board. Provide an bulleted list of the differences between mass and weight into a text box. Be sure to use your OWN words when writing your differences.* | **4** |  |
| 4.) **Balanced and Unbalanced Forces**-*Locate a video clip showing an example of a balanced force, label it, and post it to your board. Locate a video clip showing an example of an unbalanced force, label it, and post it to your board. In a text box, compare and contrast these two types of forces using your own words.* | **4** |  |
| 5.) **Potential Energy and Kinetic Energy**-  \* ***Potential Energy-****Create a text box and define potential energy. Then, add a* ***picture (image)*** *showing what potential energy looks like.*  ***\*Kinetic Energy-****Create a text box and define kinetic energy. Then, add a short* ***video clip*** *showing kinetic energy in action.* | **4** |  |
| 6.) **The 3 Laws of Motion**-*Research Sir Isaac Newton’s life. Add an image of Sir Isaac Newton to your board. Also, add a text box and write a 3-4 paragraph biography about Sir Isaac Newton. Be sure to add information in his biography about his work toward discovering the 3 Laws of Motion. Explain how his discoveries have impacted the science world, even today in the 21st Century.* | **4** |  |