

Newton's Laws of Motion Illustration

For this assignment, you will show your understanding of Newton's Three Laws of Motion by creating a illustrations that demonstrates how objects behave when in motion.

1. Summarize and Brainstorm
 - Summarize in your own words, each of the 3 laws of motion.
 - Brainstorm a couple characters, the setting, and some simple motions or activities your characters could do to demonstrate each of the 3 laws.
2. The Storyboard
 - You will use a storyboard to rough draft and outline your project.
 - Peers will be checking your storyboard for completeness, accuracy, and understandability. Please be willing to include the suggested revisions into your final submission.
3. The Final Product
 - Your product will have 8 frames (2 frames per law and 1 choice law frame).
 - Your 1st (or 8th frame) is your title, name & hour
 - Each frame must be at least $\frac{1}{4}$ of a regular sheet of printer paper (folding the sheet may work well for dividing the space).
 - The images should colored and clear (hand drawn) so that the class can readily view and understand the ideas when presented with the document camera.
 - Your illustrations should be colored or have effective shading.
4. Written Explanation and Presentation
 - You will write an explanation of each illustration at the bottom of each frame.
 - The statement should explain how the motions in your illustration accurately represent each of the 3 laws.

Name _____

Hour _____

Illustration Project Timeline:

- Summarize 3 laws. Tuesday, May 16
- Brainstorm ideas & begin storyboard draft.
- Work on first draft of storyboard. Wednesday, May 17
- Have storyboard reviewed, get feedback from peer. Thursday, May 18
- Work on final product and written explanations. Friday, May 19
- Final Product Due Monday, May 22
 Turn in final product, and draft storyboard with feedback from peer name _____

Scoring Guide:

	4	3	2	1
Planning and Process – summary of laws, Storyboard draft, revisions evident in final X2	Considers all related material. Summarizes, brainstorms, and revises for an accurate and complete representation of concepts. Storyboard is done as instructed and is complete. Evidence of thoughtful revision is present.	Considers many concepts, summarizes, brainstorms, and creates a fairly complete representation. Evidence of some revision.	Considers some concepts. Summary and brainstorm is minimal. Storyboard does not fully describe the concepts and is missing some visual or narrative elements. Little evidence of revision.	Considers few concepts. Summary and brainstorm is not present. Storyboard is hard to understand/messy and/or missing elements that are vital to understanding. Unwilling to revise.
Applying Concepts Representation of 3 laws in written explanation and cartoon X2	Correctly applies concepts of Newton’s 3 laws of motion including inertia, force, mass, acceleration, and action and reaction forces.	Fairly accurately applies concepts of Newton’s 3 laws of motion including inertia, force, mass, acceleration, and action and reaction forces.	Correctly applies some concepts of Newton’s 3 laws of motion including inertia, force, mass, acceleration, and action and reaction forces but errors or omissions show some lack of understanding.	Illustration contains major errors in applying concepts.
Visual Presentation X2	Illustrations creatively present concepts. Neat and clearly legible. Uses color or shading.	Mostly neat and legible. Visual presentation is fairly creative imaginative.	Some level of messiness detracts from final product. Lines not dark enough to see form distance. Visual presentation somewhat lacking in creativity.	Illustration is messy and/or haphazard. Lacks creativity. Frames smaller than ¼ printer sheet.
Total Score: /24 possible pt				

Include this sheet as a cover sheet.