Newton's Laws of Motion Multimedia Project

DUE DATE: SHOWN IN CLASS---NOVEMBER 29---

Should be uploaded **by 9:00 AM** and accessible through your wgcloud account—submit link on classroom

Create an instructional Movie or other approved multimedia presentation demonstrating each of Newton's Laws of Motion (NO POWERPOINTS). Make sure that each of the 3 laws is clearly stated, clearly demonstrated and an explanation is given! You will be graded with the following rubric:

- Newton's law 1:
  - Clearly Stated *(Verbally or Text)* (2 points)
  - Law is shown with a relevant demonstration (2 points)
  - Accurate explanation (2 points)

- Newton's law 2:
  - Clearly Stated *(Verbally or Text))* (2 points)
  - Law is shown with a relevant demonstration (2 points)
  - Accurate explanation (2 point)

- Newton's law 3:
  - Clearly Stated *(Verbally or Text))* (2 points)
  - Law is shown with a relevant demonstration (2 points)
  - Accurate explanation (2 points)

- Creativity and Organization of Video
  - Quality video (all rough video edited out!) (1 point)
  - Smooth transitions (1 point)
  - Video organized in an effective manner (1 points)
  - Video length no longer than 70 seconds (5 points)
  - Group overall creativity (1 points)
  - Individual overall effort (1 point)
  - Individual contribution to group (2 points)

Newton's Laws

Law 1: Law of Inertia
- An object in motion will remain in motion unless acted on by an outside unbalanced force
- An object at rest will remain at rest unless acted on by an outside unbalanced force

Law 2: Force = Mass x Acceleration or a = F/M
- A greater force will result in greater acceleration
- A greater mass will result in less acceleration

Law 3: For every action there is an equal and opposite reaction
- When a force is exerted on an object, the object exerts a force back