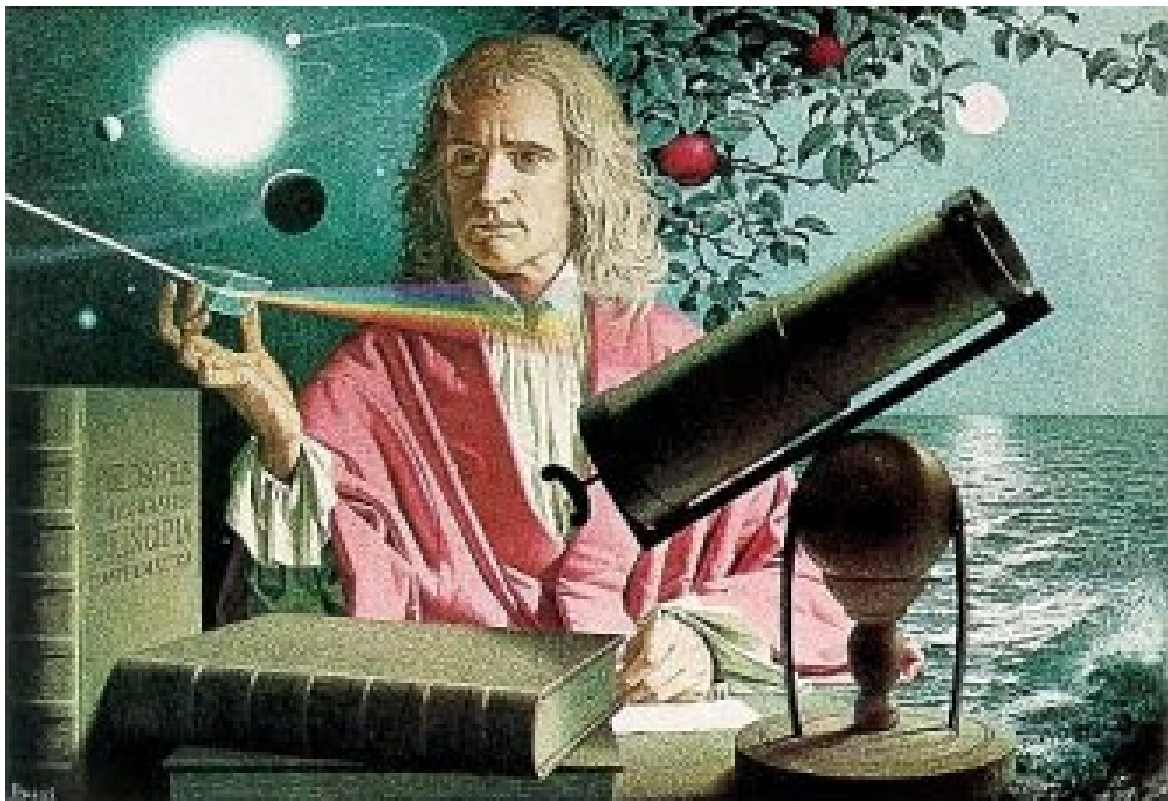


THE LAWS OF MOTION



NAME:

DATE:

PRESENTATION

Review explanations of the laws in via the links below. Then, choose one of the laws of motion and create a presentation in Google Slides or PowerPoint.

- 1) The [First Law of Motion](#) states, "A body at rest will remain at rest, and a body in motion will remain in motion unless it is acted upon by an external force." This property of massive bodies to resist changes in their state of motion is sometimes called *inertia*.
- 2) The [Second Law of Motion](#) describes what happens to a massive body when it is acted upon by an external force. It states, "The force acting on an object is equal to the mass of that object times its acceleration." This is written in mathematical form as $F = ma$, where F is force, m is mass, and a is acceleration.
- 3) The [Third Law of Motion](#) states, "For every action, there is an equal and opposite reaction." This law describes what happens to a body when it exerts a force on another body. Forces always occur in pairs, so when one body pushes against another, the second body pushes back just as hard.

Your presentation should do the following:

- 1) Define and explain the Law of Motion and any additional terms
 - a. Include the symbolic questions
- 2) Give two real examples of where you see the law
 - a. Use video or pictures to describe
- 3) Describe how this law relates to driving or transportation
 - a. Use video or pictures to describe
 - b. Feel free to refer to anything presented in the video by IIHS
- 4) Describe potential applications of a better understanding of this law to invent new or advance current technology or designs.

Presentation Guidelines:

- Title slide with your name and an engaging title
- At least 5 pictures, graphics, or short videos; try to tie the picture into the idea you are presenting. Pictures should add to the idea being presented rather than distracting.
- A reference slide with any additional resources or websites you used
- A more useful rule of thumb may be no more than 1 idea per slide.
- Use a minimum 18 point font size.