Physics 11 – Impulse and Momentum

Resources: This unit is not in your usual Physics 11 Textbook.

- ~~Go to "Phys 11 Resources" channel~~
- ~~Then click on "Files"~~
- ~~Then open the folder, "Impulse Momentum"~~

~~You may wish to download that whole folder to your computer. That way you won't have be on-line when you refer to the resources (it's faster if you work from your computer – there's always a bit of delay opening the files on line)~~

The primary textbook resource is the file titled:

- *"Physics 11 level chapter -Momentum and conservation"*

The other files in the "Impulse Momentum" folder are Worksheets and answer keys, providing examples of problem solving strategies.

~~Week of May 11 – Lesson and Assignment~~

9.2: The Conservation of Momentum

- Lesson video #1 - Conservation of momentum theory with examples, including car crash and bullet/block examples: https://www.loom.com/share/8740a63a7a764b349c4e163fc512c87b
- Lesson video #2 - 3 types of collision: perfectly inelastic, perfectly elastic, partially elastic; Percent elasticity: https://www.loom.com/share/f0b00c61cd354f35ad44a0f3c8f896c4
- Lesson video #3 - Multi-concept problems (including conservation of momentum and conservation of energy: for example, ballistic pendulum): https://www.loom.com/share/19ac7ade53e348f891ab90a0defe7e12
    - Ballistic pendulum (e.g. https://en.wikipedia.org/wiki/Ballistic_pendulum)

For fun: Phet simulation - Collisions (this is in 2-D, which is Physic 12 level, but it's still interesting!): https://phet.colorado.edu/en/simulation/legacy/collision-lab

~~Assignment:~~

- ~~**Question set #2: Section 9.2 – The Conservation of Momentum**~~
- ~~**Question set #3: Multi-concept problems**~~