Momentum:

Momentum: Tells us how hard it is to slow down/stop an object. Tells us how much force an object can exert in a collision.

Momentum = mass * velocity

$p = mv$

p: $\frac{kg \cdot m}{s}$

m: kg v: m/s (units)

Transfer of momentum:

- In any collision, momentum can be transferred from one object to another
- In many cases, the total momentum of the objects colliding stays the same (or close to the same) — Law of Conservation of Momentum
(So sometimes, we can predict how things will move after a collision!)

TODAY:

- Find 3 different videos (appropriate)
- Copy/paste URL
- Describe what's happening in terms of momentum

Definition →

1. How hard would it be to stop/slow down? How much force will be created?
2. $p = m \cdot v$ (which is large, which is small?)
3. Where/when is momentum being transferred? Describe <u>how</u>.