

S5 Momentum: Concentrating on Collisions

TODAY'S
DATE

E.Q.: A Small vehicle hits a large truck.
What factors determine the outcome
for the passengers of the two vehicles?
Which driver will sustain worse injuries? Why?

What is momentum? Momentum is the product
of the mass and the velocity
of an object

$$p = m \cdot v$$

where p = momentum
 m = mass
 v = velocity

- objects in motion have momentum
- collisions between two objects often involve changes in momentum for each object