

Momentum and Impulse

1. A small football player needs more momentum than a large football player to be able to tackle him. Explain how that is possible.
2. Explain why it is more difficult for a full semi-truck to stop than a small compact car if both are traveling at the same speed.
3. Explain why the engines of supertankers (large boats) must be shut off several kilometers before they need to stop.
4. Choose one safety feature of a car and explain how it is used to reduce the impulse felt by a passenger.