

Unit Issue Provides context for relevant and connected anchoring and investigative phenomena within the unit.

Some vehicles and driving behaviors result in fewer accidents and less damage than other. How can we reduce the risk factor of motor vehicle accidents?

Unit Phenomena What can we observe in science that makes us wonder?

Some vehicles and driving behaviors are safer than others.

Some vehicle accidents cause more damage than others.

Vehicles change motion.

When a vehicle accident happens, often both vehicles are damaged as a result of the collision.

Engineers design vehicle features that can make vehicles safer and promote safer driving behaviors.

Activities Students use SEPs and understanding of DCIs and CCCs to explain, justify, and argue a point of view about the issue.

improving car and driver safety

measuring & graphic speed

speed, mass, & kinetic energy

changing speed & direction

investigating $F = ma$

Newton's Laws of Motion

collisions & changes in motion

breaking distance & coming to a stop

designing a safety system

