

Name: _____

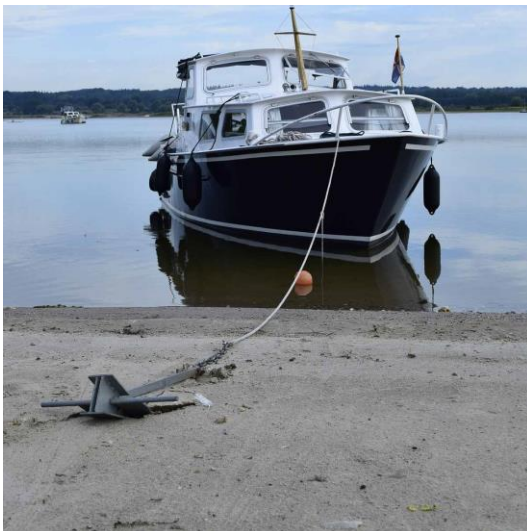
Date: _____

Safety Devices

Objects that are moving want to keep moving. They keep moving unless a force acts on them. You discovered this in your ball drop experiment. The ball wanted to keep falling. Your design caused a force to act on the ball. The force caused the object to slow down.

Engineers use what they know about moving objects and forces to design safer cars. When you are travelling in a car, your body keeps moving with the car. What happens if the car stops suddenly? Your body inside the car will keep moving unless a force stops it. A seat belt stops you from continuing forward.

Below are some pictures that show other safety devices being used.





These pictures show other places where movement is slowed down or stopped by safety devices. Look at each picture. What causes the force that slows down or stops the movement?

Picture	The movement that is being slowed or stopped.	The thing that causes the force that slows down or stops the movement.
1 - Tire	<i>The truck rolling forward/backwards.</i>	<i>Block <u>pushes</u> against the tire.</i>
2 - Parachute		
3 - Boat		
4 - Baby Car Seat		
5 - Air Bag		
6 - Mouth Guard		