



Look up images of 4 cars that you drive or family member drives

What is similar and different about their crumple zones?

# Simulation Exploration

Choose 2 to explore

- Increase the mass
  - What changes in the velocity vs. time graph of the vehicle?
- Increase the crumple zone length
  - What changes in the velocity vs. time graph of the vehicle?
- Increase the crumple zone rigidity
  - What changes in the velocity vs. time graph of the vehicle?
- Increase the vehicle speed
  - What changes in the velocity vs. time graph of the vehicle?