

Name:

Extension activity

Design an experiment

1. Besides speed, other factors can affect the impact on the human body during a crash. Can you list some of these factors?

Design an experiment

For this experiment, you will need two cars. If you are learning from home, toy cars or cars made from LEGO will do. The research question you will be trying to answer is: *How does (factor) affect the impact on the driver during a head-on crash?* Choose one of the factors that you listed above to change in order to study the impact on the driver during a head-on crash. For each crash take a picture and/or make a slow-motion video so that you can gather observations and describe what happened.



2a. Research question:

2b. Hypothesis:

2c. How will you test this hypothesis? Describe what you will do to test your hypothesis in a few sentences.

2d. Conclusion: Summarise the answer to your research question based on the results gathered.