



Outline

You are to produce a small project about car safety. This will satisfy the following learning outcomes:

1.2.4 Car Safety You should be able to...

- ...define *thinking distance*, *braking distance* and *stopping distance*.
- ...analyse and solve problems using the terms thinking distance, braking distance and stopping distance.
- ...describe the factors that affect thinking distance and braking distance.
- ...describe and explain how air bags, seat belts and crumple zones in cars reduce impact forces in accidents.
- ...describe how air bags work, including the triggering mechanism.
- ...describe how the trilateration technique is used in GPS (global positioning system) for cars.

Content

The exact format is up to you: video; powerpoint; prezzi; website; word document; artwork. As long as it satisfies the following conditions

Task	Complete
Glossary of key words	
Explanation of the factors that affect <i>thinking</i> and <i>braking</i> distance	
Explanation of how modern car design reduces the <i>forces</i> on the occupants	
Diagram and description of how an airbag triggers	
Description and an analogy of how GPS works in car SatNav systems	
Three research sources referenced	