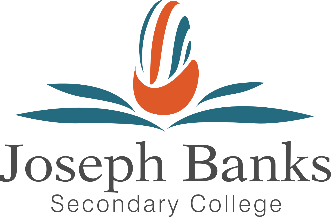
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**Yr11 Integrated Science ATAR 2020**

TASK 02: ER – Comparison of Vehicle Safety Devices

**Topic**

The extended response questions will be based around a comparison of vehicle safety devices, how these devices have improved over time and how Newton’s Laws of Motion have aided in the design of these devices.

Your research notes should include information about all of the above topics (utilise the unit content dot points to assist you as well).

You will get the most out of your research notes if you summarise the information, rather than just copying it word for word.

**Unit Content Covered**

* SIS - interpret a range of scientific and media texts, and evaluate processes, claims and conclusions by considering the quality of available evidence; and use reasoning to construct scientific arguments
* SHE - scientific knowledge and improved technology have contributed to enhancement of safety features in vehicles to protect both occupants and pedestrians
* SU - vehicle safety devices and features – airbags, seatbelts, crumple zones, anti-lock braking systems and electronic stability control – use the application of Newton’s laws and conservation of momentum in their design
* SU - Newton's Laws of Motion assist in the explanation of the resultant motion of occupants during collisions

**Useful Websites**

<https://www.consumerreports.org/cro/2012/04/guide-to-safety-features/index.htm>

<https://www.ancap.com.au/understanding-safety-features>

<https://www.science.org.au/curious/technology-future/death-defying-designs-car-safety>

**Task Details**

Research Notes Lesson: Monday 9th March 2020

Research Notes requirement: 1 A4 sheet, double sided (typed and printed or handwritten)

Extended Response Lesson: Wednesday 11th March 2020

Weighting: 4%

**Marking information**

Research Notes: 20% of assessment mark

Extended Response questions: 80% of assessment mark (53 marks)

**Extended Response Test Questions [53 Marks]**

Please answer all questions, taking note of how many marks each question is worth (1 mark = 1 piece of information)

**Question 1**

1. Identify two (2) vehicle safety devices that have been designed because of Newton’s First Law of Motion and explain how they are linked to Newton’s First Law of Motion. (6 marks)

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1. Compare and contrast the vehicle safety devices you identified above, Identifying similarities and differences between them. (6 marks)

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1. Choose one of your above safety devices and discuss how and why it has changed over time.

(8 marks)

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**Question 2**

Create a value line that places 5 different safety devices from most important to least important. Explain the reason why you place each device where you do. (11 marks)

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**Question 3**

Explain what happens to a car and its driver during a collision where the driver needs to brake, but still hits a stationary object at approximately 60km/hr. Include what parts of the car are involved and how Newton’s Laws of Motion are linked to each individual step. (12 marks)

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**Question 4**

In Australia, the following child restraint laws apply.

Explain why you think it is important that children need to be properly restrained in a car using the appropriate level of restraint and discuss what you think would happen if these laws were not followed and the car was in a collision, or the restraint was not fitted correctly. (10 marks)

*National child restraint laws*

* Children up to the age of six months must be secured in an approved rearward facing restraint
* Children aged from six months old but under four years old must be secured in either a rear or forward-facing approved child restraint with an inbuilt harness
* Children under four years old cannot travel in the front seat of a vehicle with two or more rows
* Children aged from four years old but under seven years old must be secured in a forward-facing approved child restraint with an inbuilt harness or an approved booster seat
* Children aged from four years old but under seven years old cannot travel in the front seat of a vehicle with two or more rows, unless all other back seats are occupied by children younger than seven years in an approved child restraint or booster seat
* Children aged from seven years old but under 16 years old who are too small to be restrained by a seatbelt properly adjusted and fastened are strongly recommended to use an approved booster seat
* Children in booster seats must be restrained by a suitable lap and sash type approved seatbelt that is properly adjusted and fastened, or by a suitable approved child safety harness that is properly adjusted and fastened.

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