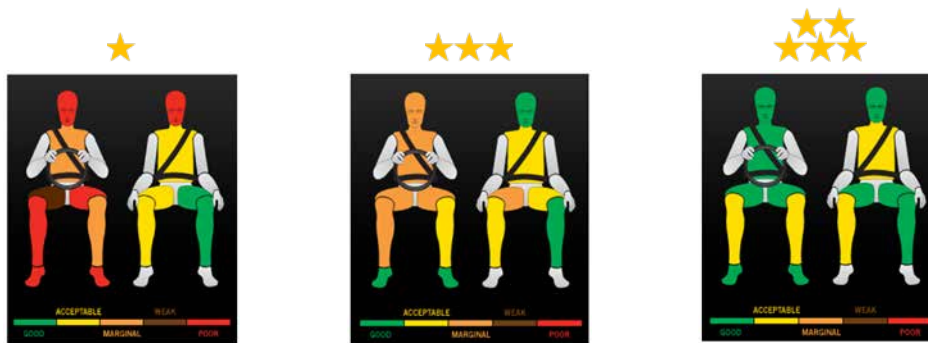


Buying a car

Activity: investigating the Australasian New Car Assessment Program (ANCAP)

Since 1993, ANCAP has published safety ratings for thousands of different vehicle models, makes and variants.

These vehicles are awarded an ANCAP safety rating of 1 to 5 stars, indicating the level of safety they provide in the event of a crash - the more stars, the better the vehicle performed in ANCAP tests. ANCAP recommends 5 star rated vehicles. To achieve the maximum 5-star ANCAP safety rating, a vehicle must achieve the highest standards in all tests and feature advanced safety assist technologies (SAT).



Task 1: investigate safety features

Use the resources found at [ancap.com.au/understanding-safety-features](https://www.ancap.com.au/understanding-safety-features) to complete the following activities on safety features.

1. Airbags

When deployed in a crash, airbags significantly reduce the chance of death or serious injury. Consumers should look for front, side, curtain and knee airbags for maximum safety.

A. Explain the difference between the four different types of airbags:

Frontal airbags	Side airbags	Curtain airbags	Knee airbags

2. Safety assist technologies

Approximately 90% of crashes involve some form of human error. Semi-autonomous and autonomous safety technologies are designed to assist the driver in avoiding or reducing the severity of a crash. These technologies include blind spot monitoring (BSM), autonomous emergency braking (AEB), active lane keep assist (LKA) and intelligent speed adaptation (ISA).

A. Describe how the following collision warning and avoidance features work:

Autonomous Emergency Braking (AEB)	Blind Spot Monitoring (BSM)	Lane Support Systems (LSS)/Lane Keep assist (LKA)	Following Distance Warning

B. Describe how the following speed alert assist features work:

Speed Alarm (Manual)	Intelligent Speed Alert Systems	Top Speed Limiter

3. Fatigue assistance

Fatigue assistance sees sensors monitor driver attention and detect drowsiness, alerting the driver to take a break if they show signs of fatigue.

A. Which types of roads/road locations do you think that this safety feature is likely to be most effective? Why do you think that?

4. Connected roads and cars

A. Explain the following:

Automatic Emergency Call _____

Traffic Sign Recognition _____

Vehicle to Vehicle (V2V) and Vehicle to Infrastructure (V2I) Communications _____

5. Safety ratings

Safety should be your number one priority when buying a new car. Did you know that not all new vehicles have a 5-star safety rating? Go to [ancap.com.au/safety-ratings](https://www.ancap.com.au/safety-ratings) to answer the following questions:

A. How safe is your parent's vehicle? _____

B. Name 3 safety features in your parent's vehicle? _____

C. Name a safety assist technology feature in your parent's vehicle (if they have any)?

D. When buying a new or used car, why is it important to buy a 5-star safety rated vehicle?



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