



NORTHMEAD CAPA HIGH SCHOOL

Year 10 PBL: Survival (Science and PDHPE)

Driving question: Is crash survival a matter of luck?

In week 6, August 24th-28th, students in Year 10 will all take part in a Project Based Learning Task where they consider the importance of driver safety and survival on the roads. During this week, normal classes will be disbanded while the students work in groups to create a safety presentation and car prototype which would provide protection for a passenger.

Pending COVID19 restrictions, students will also be attending presentations from:

- **Wentworthville Fire & Rescue** will be presenting their NSW RescueEd program which includes a practical demonstration simulating the rescue of a person from a motor vehicle.

It is important to note that during these presentations, students will view television commercials and visuals that depict car crashes. Any students who might find this confronting **MUST** speak to Miss Spicer, Mrs Steinhoff, Mrs Ashfaq or Ms Dhawan by the **21st August** so that they can be withdrawn from the videos activity.

Having learnt information relating to car safety, the students will be asked to create a safety presentation and create an 'egg mobile' – a prototype of a vehicle which will be run through a specific crash simulation to test its ability to safely protect an egg.

Each group of students will be provided with basic material kit to build their vehicle including:

- 1m bubble wrap
- 2m twine
- 8 rubber bands
- 1 small roll of sticky tape
- 1 disposable rectangular takeaway box
- 50 paddle-pop sticks
- 3 sheets of A4 card weight paper
- 8 sticks of 7.2mm glue

NB. Glue guns will be provided for use in laboratories **only** under strict supervision

Students are reminded that they are **NOT** permitted to bring any sharps e.g. knives, box cutters, to school.

Each group will be responsible for providing wheels and axles for their prototype (these may be prefabricated) and any other materials that they would like to add.

The egg mobile will need to be built to specific criteria which will be handed out on Monday the 24th August.

This will be a very interesting and informative week for students in year 10 as they engage with a mandatory project for Science and PD/H/PE and learn about the importance of safety on the roads.

Should you have any concerns regarding this project, please contact Mrs Scott or Miss Spicer at school.