

Our senior school program is focused on delivering science to students in an engaging manner. The program will get them thinking critically and using the knowledge and skills they have gained to investigate and solve a variety of scientific theories and questions.

Activities for these year levels include;

- **Discovery Gallery:**

Students will learn about the fundamental forces of the universe alongside its structure. The guide will discuss topics such as the life cycle of a star, properties of waves and gravitational wave astronomy. The students will be encouraged to engage in discussions and answer/ask questions.

- **Cosmology Gallery:**

Students will learn about the history of the early universe, the formation of the solar system and life on Earth in detail. Students will be asked questions and encouraged to ask questions of their own.

- **Tower Climb + Pendulums + Analysis:**

Students will climb the tower and take quantitative measurements of water balloon drops. Students will also discuss the physical phenomenon of pendulums and take quantitative measurements of the oscillation period of the pendulum. After this the students will enter the lecture hall, where the guide will work with the students to calculate the local gravitational field strength at the GDC, weigh the Earth, determine the height of the tower and the velocity of water balloons the moment before they hit the ground. Students are encouraged to bring their own workbooks and calculators.

- **Day Observatory/Solar Walk:**

Students will discuss Einsteinian gravity and physics in detail and learn about the types of space junk alongside their side effects. Students will also be able to view the sun through a solar telescope (weather permitting). On the solar walk, students will learn about the 6 closest planets and the sun in detail.

If you are interested in booking an excursion for your class, please download a booking form from the website, fill it out and send it to bookings@gravitycentre.com.au. We will get in contact with you and organise a timetable for your visit.

For any queries, please don't hesitate to send them to this email or call us on 08 9575 7577.