

Our middle school program is focused on delivering science to students in an engaging manner that gets them thinking critically. The content delivered is interactive and will encourage student's curiosity in the science that surrounds them every day.

Activities for this age group include;

- **Discovery Gallery:**

In our Discovery Gallery, students will learn about the fundamental forces of the universe, the life cycle of stars and the different types of stars that exist. Students will also learn about gravity in our universe and the different types of waves present in our universe. The guide will encourage engage students and ask them questions about what they have learned and also encourage them to ask questions.

- **Cosmology Gallery:**

The students will be guided through the timeline of the universe exhibit. During the tour, the guide will briefly cover the early universe, before going into detail about the formation of the Earth and the evolution of life on Earth. Along the way the guide will ask the group questions and encourage questions from the group.

- **Tower Climb + Analysis:**

Students will climb the tower and perform Galileo Galilei's gravity experiment by dropping two water balloons from that top that each have a different mass. Prior to this the guide will get the students to think scientifically and hypothesize which of the two balloons will hit the ground first. The guide will get some of the students to measure and record the time taken for the balloons to reach the ground using stop watches for each drop. Following this the guide will take the students into the lecture hall, where they will use the recorded observations to calculate the height of the tower and the

velocity of the balloon the moment it hits the ground. Students are encouraged to bring their own working paper and/or calculators to perform the calculations for themselves.

- **Day Observatory/Solar Walk:**

Students will learn about the two major types of space junk and will also learn about the difference between Newtonian and Einsteinian theories of gravity. Students will also be able to view the sun through a solar telescope (weather permitting). The class will then walk down the Solar System walk where the guide will teach the students about facts and features of each planet, going into detail wherever possible.

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](mailto: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.