

**GOLD COAST PRIMARY SCIENCE AND ENGINEERING CHALLENGE 2018**

**Friday, 7 September 2018**

*Presented by*

**Upper Coomera State College STEM Academy**

*Hosted by*

**Dreamworld, Gold Coast**

*Sponsored by*

**Dreamworld and Upper Coomera State College STEM Academy**

**Overview**

The Primary Science and Engineering Challenge is a day-long competition, hosted at Dreamworld, designed to provide a real world science and engineering context for students in Years 5 and 6. The competition day will see students from public and private schools competing against each other through a variety of exciting challenges focused on the physics of theme park rides.

Each school team will be divided into groups consisting of 3 - 4 students, and will work on 2 half-day activities. Students will work on activities throughout Dreamworld, enabling them to apply the physics of theme park rides all around them to the challenges set before them.

**Event Objectives:**

The Primary Science and Engineering Challenge aims to inspire year 5 and 6 students through inquiry-based learning to develop creative thinking, foster positive academic outcomes and encourage future pathways in STEM. The program seeks to support the school community through creative competition and shared learning experiences.

Teachers in attendance on the day will also be involved in Professional Development aimed at demonstrating how to provide unique, challenging and varied learning experiences for students in STEM.

**Event Details:**

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| **Time** | **Activity** | **Location** |
| 9:00am to 9:15am  | Registrations | Lego Store Precinct |
| 9:15am to 9:25am | Photo at Lagoon Stage | Lagoon Stage |
| 9:25am to 9:35am | Moving to Tiger Island | In Transit |
| 9:35am to 9:50am | Welcoming and explanation of challenges | Tiger Island |
| 9:50am to 10:00am | Moving to various challenge locations  | In Transit |
| 10:00am to 11:50am | **Challenge no. 1** | Various locations |
| 11:50am to 12:00pm | Moving to lunch location | In Transit |
| 12:00pm to 12:30pm | Lunch | The Shell |
| 12:30pm to 12:40pm | Moving to various challenge locations  | In Transit |
| 12:40pm to 2:30pm | **Challenge no. 2** | Various locations |
| 2:30pm to 2:40pm | Pack-up/ Scoring | Various locations |
| 2:40pm to 2:50pm | Moving to Tiger Island | In Transit |
| 2:50pm to 3:15pm | Presentations | Tiger Island |
| 3:15pm to 3:30pm | Moving to student pick-up location at Lego Precinct | Lego Store Precinct |

**Where:**

Dreamworld, Gold Coast - Dreamworld Parkway, Coomera, Qld

**Participants:**

Each school is able to bring between 12 to 32 year 5 and 6 students. The school teams are split into groups of 3-4 students. Schools need to send at least one staff member to supervise their students.

Students of varying academic abilities are encouraged to attend -

* Regardless of academic grades any students with a passion for STEM will benefit from involvement in the challenges.
* The ability to work well in a team is the most important ingredient for success.
* Low SES/disabled/special needs students are encouraged to be involved.

**Cost:**

Registration fee of $35 per student includes:

* Entry fee to Dreamworld inclusive of lunch
* Science and Engineering Challenge Resources
* Prizes

 Up to two accompanying staff members:

* Free entry fee inclusive of lunch
* PD resources for staff members

Parents and family members are also encouraged to watch the challenges – please refer to contact details below to organise discount tickets.

**Event Organisation:**

Teachers will be involved in Professional Development during the morning session. Supervision of students participating in the challenges will be provided by the Upper Coomera State College STEM Academy.

**Gold Coast Primary Science and Engineering Challenge Awards:**

* The winning school will receive a plaque.
* Team prizes will be awarded.
* Individual student prizes awarded for key attributes displayed on the day.

**Event Coordinator Contact Details:**

Mrs Julia Cullen

HOD Science & STEM

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**Discounted tickets for parents/ family members**

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