

# Why Study Creative Mathematics?

## Creative Mathematics:

- Introduces students to extension and enrichment topics linked to the subject of mathematics.
- Provides opportunities to explore areas of mathematics not included in the junior curriculum, while developing transferrable skills to other disciplines.
- It allows students to create and play with mathematical ideas in a guided manner.

## Students will learn strategies that may be applied to:

- Junior and Senior Subjects
- Mathematics Competitions
- Team Challenges
- Tertiary Education
- Computer Programming
- Problem Solving

## For more Information

### Dr Tom McCourt

Teacher  
Mathematics Faculty  
Craigslea State High School

### Let's Connect

#### Phone

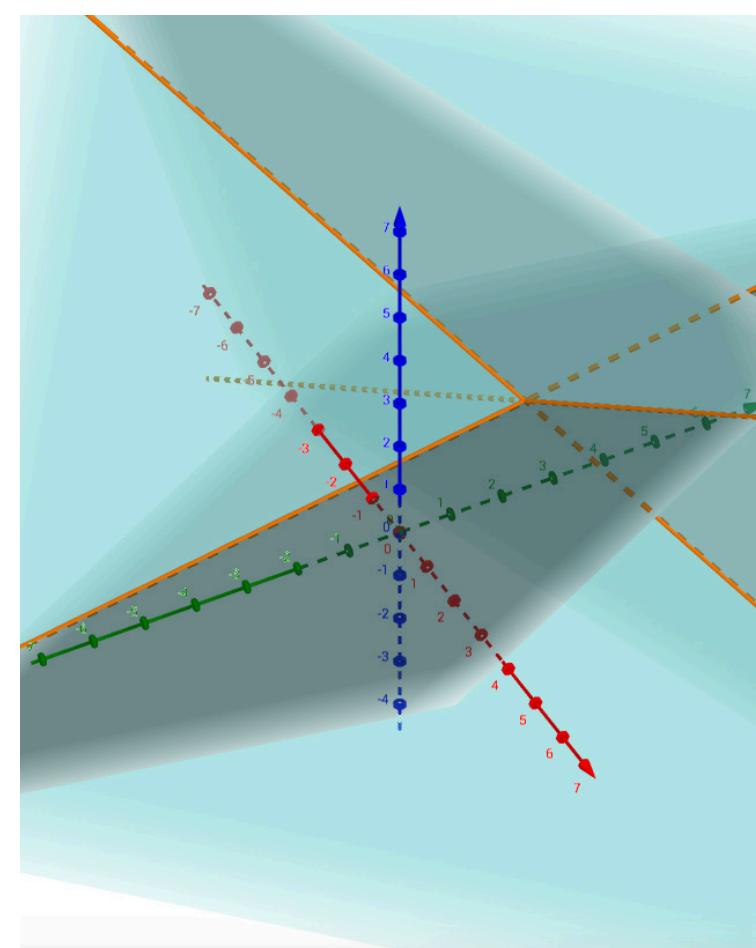
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#### Attn:

Creative Mathematics Program



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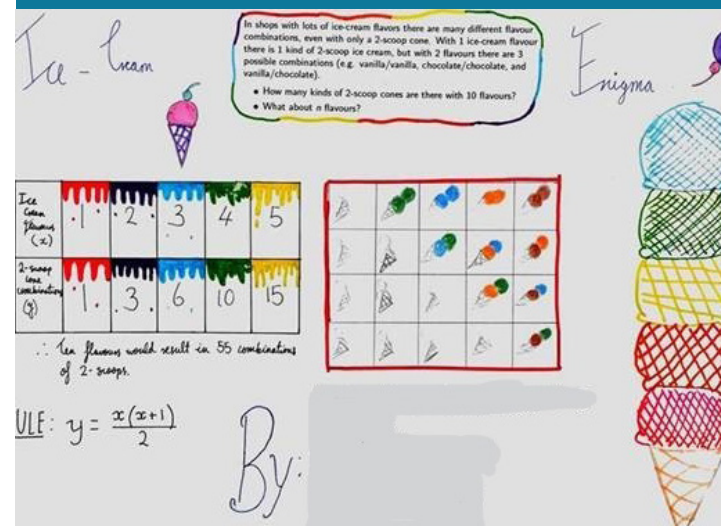
Department of Education  
Trading as Education Queensland International (EQI)  
CRICOS Provider Number 00608A



## Years 7 - 9 Creative Mathematics



Craigslea  
State High School



# Philosophy of Creative Mathematics

Creative Mathematics focuses on developing each student's joy and satisfaction in solving problems.

Creative Mathematics gives students an opportunity to explore areas of mathematics not included in the junior curriculum, while developing transferrable skills to other disciplines.

The program develops the following General Capabilities:

- Critical and Creative Thinking
- Information and Communication Technologies
- Numeracy
- Literacy

## Course Outline

### Activity

9 Weeks	- Graph theory - Exploring connections
9 Weeks	- Identifying differences - Group theory - Applications

### Potential topics include:

- Counting and permutations
- Geometry and symmetry
- Connectivity
- Patterns

Creative Mathematics will consist of one lesson a week of 70 minutes.

3:05pm – 4:15 pm.

## Assessment Summary

Assessment will consist of feedback on individual and group work.

Students will develop a portfolio of work with an emphasis on visual depictions of mathematics.



## Entry Requirements

Entry requirements for this non-mandatory elective subject will be based on the following:

1. 28 student maximum
2. Application
3. Suitability (academic, effort and behaviour)
4. When needed, we will balance the number of each age group. For example, nine students per grade.
5. \$10 fee paid

