

BURGMANN ANGLICAN SCHOOL

Year Six Math Medal Task

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Acworth

This template is in wide-screen format and demonstrates how transitions, animations, and multimedia choreography can be used to enrich a presentation.

OUR MISSION



Our Mission

- In the middle school context

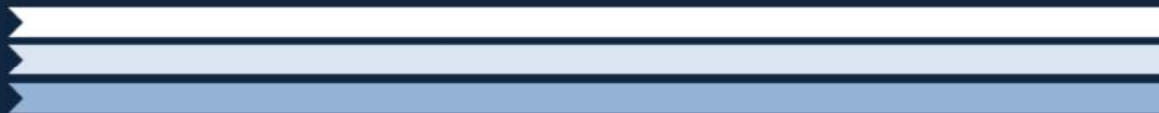
The Task

- Math Olympic Medal

The Tools Used

- Quiver: Augmented Reality
- Makers Empire: CAD software
- 3D printing and model making

Student Outcomes



Outline Presentation

Our Mission

- Timeframe
- 3D printing at our campus

THE TASK

Brief

Congratulations, your medal design company has been asked to submit a design for the 2016 Rio Olympics. Your design should include a variety of prisms and/or pyramids. The complexity of your design will determine if your design is suitable as a gold, silver or bronze medal.

Design Criteria

GOLD: A complex design made up of composite shapes, using positive and negative spaces.

SILVER: A design made up of complex or composite shapes.

BRONZE: A design made using a basic shape

Design Restriction

- No Circles
- No larger than 8cm Width x 8cm Length x 4cm Height



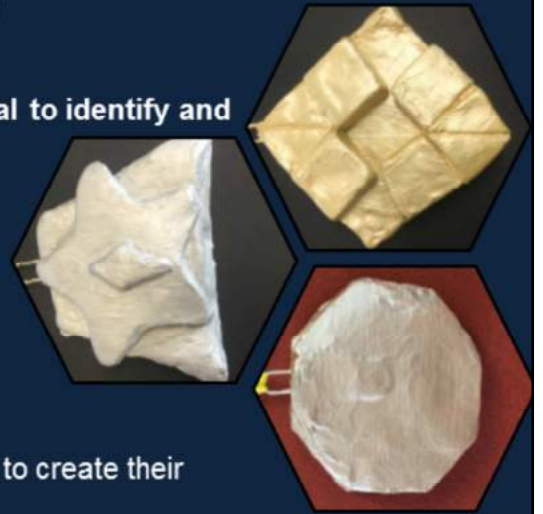
Modified – Keep in Context (Commonwealth, Athletics Carnival, Swimming, World Cup, etc.)

Differentiation

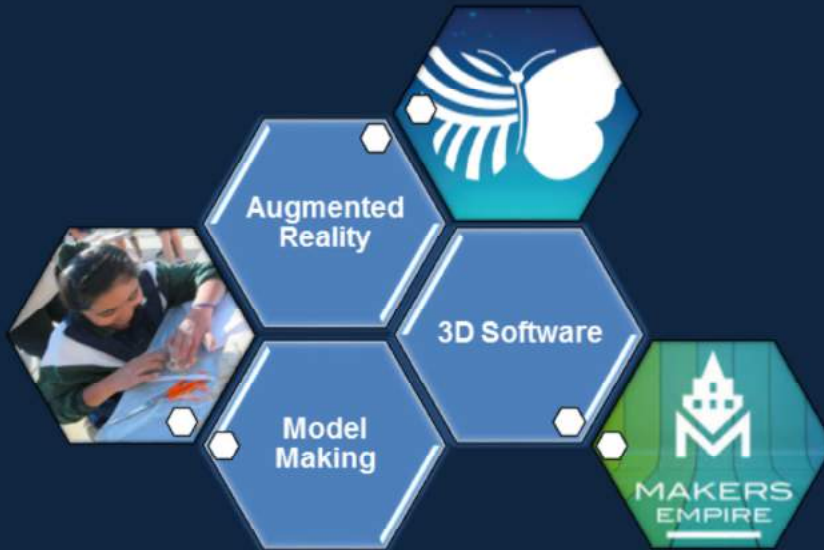
HOW DOES IT RELATE TO MATH?

In a booklet provided students, they had to use their medal to identify and calculate the following:

- **Identify 3D Shapes**
- **Perimeter**
Finding the perimeter of the base shape
- **Area**
Find the area of one face from model
- **Volume & Capacity**
Calculating how many mL of liquid gold would be needed to create their medal



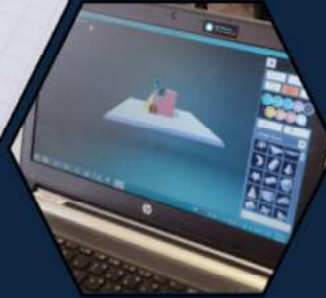
THE TOOLS WE USED IN THE CLASSROOM



IDENTIFYING 2D SHAPES USING AUGMENTED REALITY



CREATING 3D SHAPES AND DESIGNING MEDALS USING CAD & 3D PRINTING SOFTWARE



CREATING MEDALS



SHOWCASING WORK

