

# Junior Senior Mathematics Enrichment Project

## Geometry Around the World

### Year 9 Mathematics Extension

Geometry is seen all around us, in architecture, in art, and in nature, and has featured heavily in important parts of cultures all around the world. So let's investigate how it's used around the world!

#### Task

In groups of 2-3, explore the focus area provided (or one of your choice if negotiated with the teacher) to learn about a use of Geometry by people around the world. You will need to prepare a section of a Microsoft Sway based on your topic, which will include the following features:

- An abstract (a brief description of what you did and what you achieved)
- An explanation of how your topic was used
- Evidence of something you created based on your topic
  - o Your own explanation of a mathematical proof
  - o A photo or diagram that you drew or otherwise created (by hand, or using technology like Geogebra or otherwise)
- A reflection on what you learned about mathematics from researching the topic

Keep a journal of your work. This should contain the dates of when you worked on the project, and a note about what you did on that day.

**Due Date:** Monday Week 3 (6<sup>th</sup> of August)

#### Referencing

Note down any information source you used. All references and assistance (including teachers and parents) must be acknowledged.

Any references must be made using the Harvard Referencing System:

- Guide:  
<https://www.sace.sa.edu.au/documents/652891/722147/Student+Guide+to+Referencing.pdf/50c39188-4415-42e5-a7e6-fa326ec9aaff>
- Full list of referencing rules:  
<https://www.sace.sa.edu.au/documents/652891/722147/Guidelines+for+referencing.doc/038e8536-6804-461d-92c8-171d11080fee>