Goodnight Stories

In this kete you will use Pythagoras and Trigonometry to understand buildings and the structures around them, using the processes of research and formal writing to

In Year 10 English, students are: Integrating sources of information strategies purposefully and confidently to identify, form, and

express increasingly

sophisticated ideas.

Big Idea

about some of the interesting and famous buildings and monuments that you've seen around NZ and the world-and hopefully some that you haven't heard about either.

You'll combine your maths and writing skills to write a maths resource in the style of "Goodnight Stories"

In Year 10 Mathematics,

Applying trigonometric ratios and Pythagoras' theorem in two dimensions.

Your Learning Journey

Play Building Pictionary to kick start your thinking about interesting and famous buildings around the world. Take part in a series of stations that help you understand what Trigonometry is, who Pythagoras was, and why

Develop your research skills by learning about the research

Take part in activities to develop

Learn the different skills involved in Pythagoras' Theorem and Trigonometry.

Solve problems using these skills and develop your problem solving strategies.

Challenge and Inquiry:

Can you put your best research and trigonometry skills into action? Measure the heights of buildings around school and research a building of vour choice

Write a goodnight story about your building and design a matching trigonometry problem

Fact check reports written by other students.

Write a Pythagoras or trigonometry problem for another student, and try doing theirs.

Your research project:

Goodnight story and/or supporting problem is not complete.

Not Achieved

supporting

complete.

problem are

Achieved

Story is in the style "Goodnight Stories" and supporting problem is matches the context.

tory is completely n the style of "Goodnight Stories" and the problem is set completely within the context.

Excellence

OMG!

Design your perfect religion. You'll research some different religions from around the world and then have the chance to create and present your religion to see who can gain the most converts.

In Year 9 Social Studies, students

Undertaking enquiries in order to understand how the ideas and actions of people in the past have had a significant impact on people's lives.

Big Idea

This kete is about finding ou about different religions, what they have in common, and what the best bits are. The symbols of every religion are very well described by mathematics. You'll be critically thinking about what would make an ideal religion and presenting your ideas to

In Year 9 Mathematics, students are:

Constructing and describing simple

Defining and using transformations such as rotation and reflection.

Your Learning Journey

Inspire:

Learn the research roadmap by investigating the Ratana Church as a class. As a part of this, you'll investigate the geometry of the Ratana symbol and learn how to describe and construct it. We'll also be spending some time

Practice using the enquiry cycle by investing one religion from the list. You'll report back to your group so you can pool information about a variety of religions. You'll need to be able to describe the symbol and

Find and investigate a religion that's interesting to you. Investigate the

Your own religion:

Meets some of the criteria for a religion.

Meets all of the criteria for a religion.

Has ideas that are linked together and are justified.

Is original and has been created from your own research

Synthesise the results from your enquiries and create an ideal religion of your own. You'll present your religion to our class and try to gain converts

