

Chem!stry

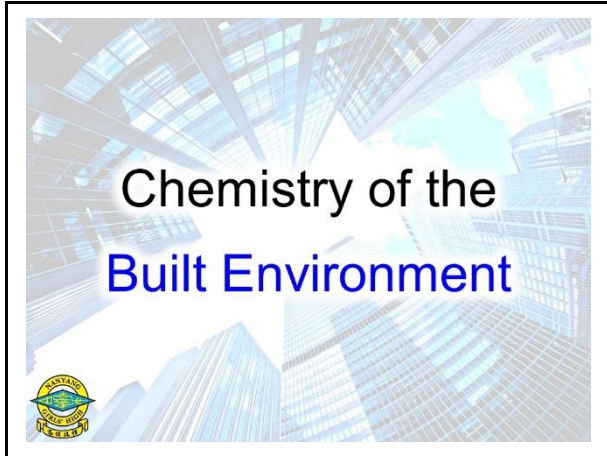
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Interdisciplinary Unit – The Built Environment – Models

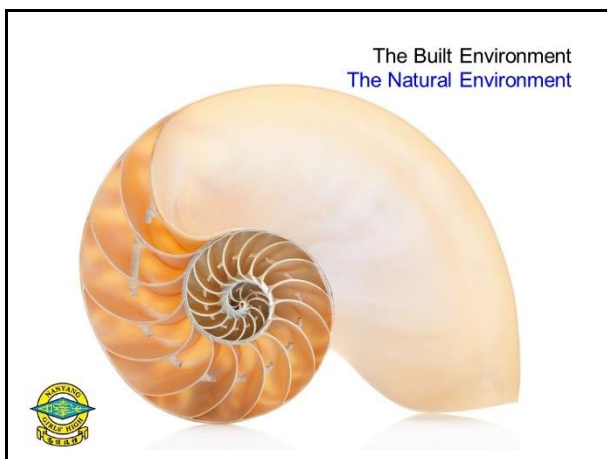
Chemistry of the Built Environment



- Chemistry of the Built Environment



- The Natural Environment



- The Natural Environment



- The Human Aspect

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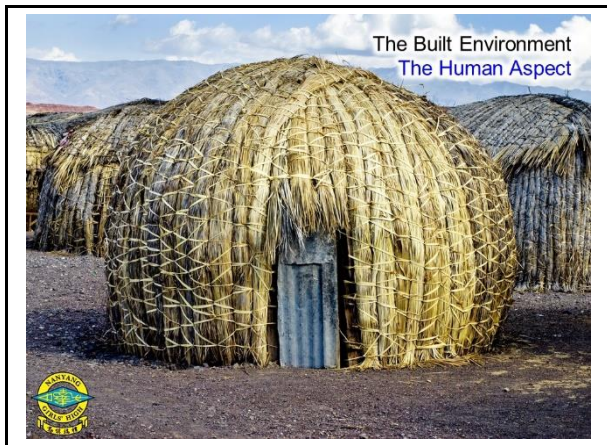
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- The Human Aspect

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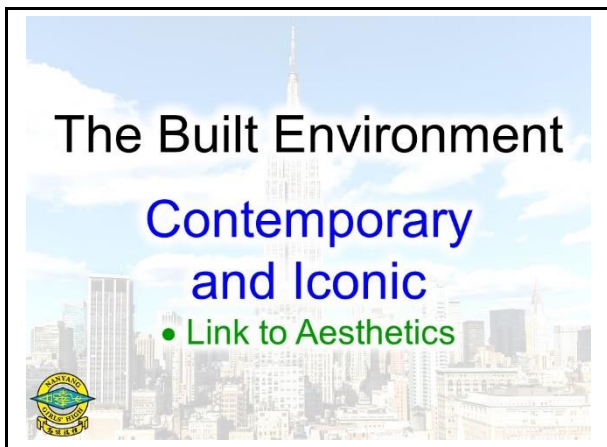
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- Contemporary and Iconic

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- Contemporary and Iconic

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- Building Materials

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- Building Materials – Wood

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- Building Materials – Concrete

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- Building Materials – Metal

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• Building Materials – Plastic

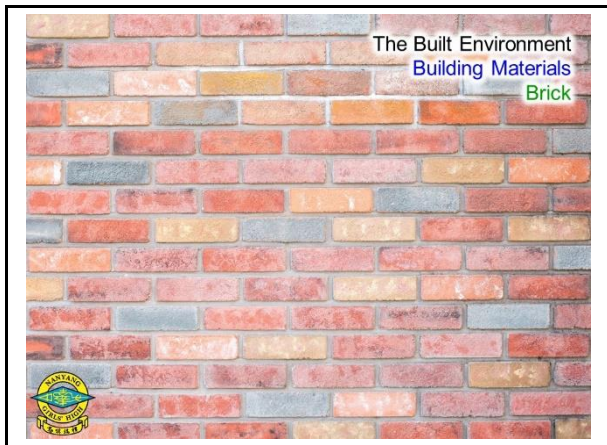
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• Building Materials – Brick

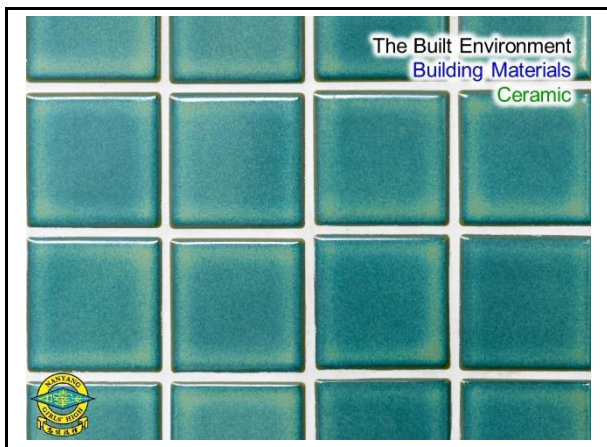
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• Building Materials – Ceramic

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• Building Materials – Glass

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The Built Environment

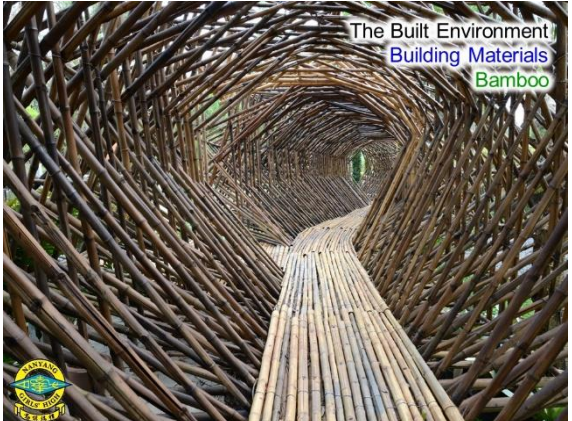
Building Materials

- Special Topic: Bamboo


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- Building Materials – Bamboo



The Built Environment
Building Materials
Bamboo



- Building Materials – Bamboo




The Built Environment
Building Materials
Why Buildings Collapse

The Built Environment

Building Materials

- Special Topic:
Why Buildings Collapse



- Why Buildings Collapse



The Built Environment
Building Materials
Why Buildings Collapse



- Why Buildings Collapse



The Built Environment
Building Materials in
Chinese Culture
• Link to Chinese Language



- Building Materials in Chinese Culture

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The Built Environment
Chinese Culture



- Building Materials in Chinese Culture

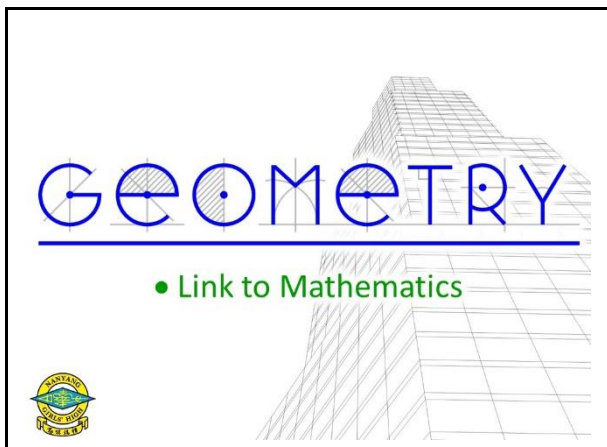
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GEOMETRY

• Link to Mathematics



- Geometry


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The Built Environment
Geometry



- Geometry

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- Sustainability

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- Sustainability

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- Singapore

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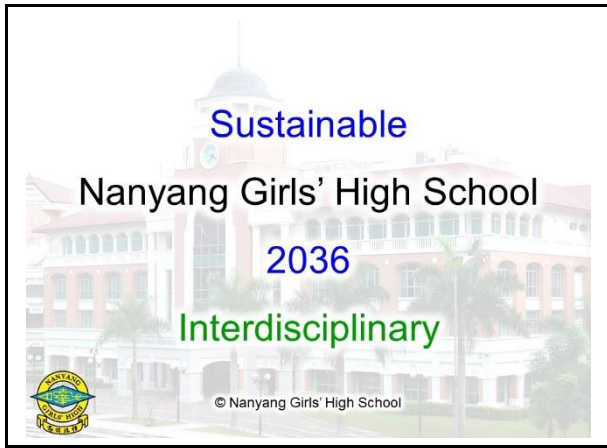
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- Nanyang Girls' High School

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- Nanyang Girls' High School

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• Scientists use *models* to help them understand and explain the natural world. The models that Scientists use can be conceptual, mathematical and physical.

a) Why do Scientists use models to help them understand and explain the natural world?

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b) Which other disciplines use models to understand and explain ideas and concepts? Give examples to support your answer.

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c) What are the limitations of using models to understand and explain ideas and concepts?

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• Scan the QR codes below to view online versions of the two presentations.



- http://www.nygh.sg/lower_secondary_science/sec_one_studies/the_built_environment/chem_built_environment_one.pdf
- http://www.nygh.sg/lower_secondary_science/sec_one_studies/the_built_environment/chem_built_environment_two.pdf