



NORTHMEAD CAPA HIGH SCHOOL

Creative Process PBL Assessment Task: Year 8

Due Date: Week 10 Term 1 (last TAS class of the week)

Driving question: How would the world function without measurement?

GOOGLE CLASSROOM CODE: 5qw6f6d

TASK

Each day, new products are designed and produced all over the world. Your task is to design and create a product dependent upon the class you are in this semester.

You will complete a design folio with respect to the design specialisation studied. The folio component will be separated into group (**no more than 3 students**) and individual tasks. You will also complete your own scale drawing of your final product.

CLASS CONTEXT AREA

Food Technology – 8THE.2, 8THE.3, 8THE.7, 8THE.10

Textiles – 8THE.8, 8THE.11

Wood - 8TIA.4, 8TIA.5, 8TIA.6, 8TIA.9

Metal - 8TIA.1

SKILLS

- The use of specific tools and techniques relevant to the appropriate design specialisation studied.
- Application of the design process, collaboratively creating the design and evaluation of the process.
- Use of rates and ratios in the real world.
- Ratios with the use of scale drawing and other real-life applications within the project

LESSON ALLOCATION

Mathematics - approximately 4 lessons to teach budgeting, rates and ratios, cost analysis and the technique of pictorial and scale drawing

TAS – Practical and theoretical lessons throughout regular timetabled classes Term 1 to the due date.

Outcomes:

Technology and Applied Studies:

4.1.1 Applies design processes that respond to needs and opportunities in each design project (FOLIO)

4.2.1 Generates and communicates creative design ideas and solutions (FOLIO)

4.3. 1 Applies a broad range of contemporary and appropriate tools, materials and techniques with competence in the development of design projects (PRACTICAL)

4.5.1 Applies management processes to successfully complete design projects (FOLIO)

4.5.2 Produces quality solutions that respond to identified needs and opportunities in each design project (PRACTICAL)

4.6.1 Applies appropriate evaluation techniques throughout each design project (FOLIO)

Mathematics

MA4-1WM Communicates and connects mathematical ideas using appropriate terminology, diagrams and symbols

MA4 -2WM Applies appropriate mathematical techniques to solve problems

MA4-2WM Recognises and explains mathematical relationships using reasoning

Marking rubric

<ul style="list-style-type: none"> • Thoroughly applies design processes that respond to needs and opportunities in each design project • Provides an extensive analysis of creative design ideas and solutions. • Provides a deep understanding of a broad range of contemporary and appropriate tools, materials and techniques with competence in the development of design projects • Extensively applies management processes to successfully complete design projects • Produces superior quality solutions that respond to identified needs and opportunities in each design project • Applies thorough evaluation techniques throughout each design project • Effectively documents measurements and represents them with an appropriate scale diagram • Detailed understanding of scale drawing with the most appropriate representation and scale factor • Detailed and accurate calculations to support cost analysis, budgeting and wastage 	85-100
<ul style="list-style-type: none"> • Provides a comprehensive understanding of design processes that respond to needs and opportunities in each design project • Generates and communicates a variety of quality creative design ideas and solutions • Applies a comprehensive range of contemporary and appropriate tools, materials and techniques with competence in the development of design projects • Applies good management processes to successfully complete design projects • Produces good quality solutions that respond to identified needs and opportunities in each design project • Applies comprehensive evaluation techniques throughout each design project • Thoroughly documents measurements and represents them with an appropriate scale diagram • Sound understanding of scale drawing with the most appropriate representation and scale factor • Detailed calculations to support cost analysis, budgeting and wastage 	70-84
<ul style="list-style-type: none"> • Applies design processes that respond to needs and opportunities in each design project • Generates and communicates a variety of creative design ideas and solutions • Applies a broad range of contemporary and appropriate tools, materials and techniques with competence in the development of design projects • Satisfactorily applies management processes to successfully complete design projects • Produces satisfactory solutions that respond to identified needs and opportunities in each design project • Applies appropriate evaluation techniques throughout each design project • Documents measurements and represent them with an appropriate scale diagram • Some understanding of scale drawing with the most appropriate representation and scale factor • Some calculations to support cost analysis, budgeting and wastage 	50-69
<ul style="list-style-type: none"> • Provides a limited understanding of the design processes that respond to needs and opportunities in each design project. • Generates minimal creative design ideas and solutions. • Applies a small range of contemporary and appropriate tools, materials and techniques in the development of design projects. • Provides a basic understanding of management processes to successfully complete design projects. • Produces basic quality solutions that respond to identified needs and opportunities in each design project • Applies basic evaluation techniques throughout each design project • Inconsistently documents measurements and represent them with an appropriate scale diagram • Inconsistent scale drawing which does not comply with the scale factor • Attempts calculations to support cost analysis, budgeting and wastage 	35-49
<ul style="list-style-type: none"> • Provides minimal understanding of the design processes that respond to needs and opportunities in each design project. • Generates and communicates limited design ideas and solutions • Applies a limited range of contemporary and appropriate tools, materials and techniques in the development of design projects • Applies minimal management processes to complete design projects • Produces limited solutions that respond to identified needs and opportunities in each design project • Applies limited evaluation techniques throughout each design project • Attempts to document measurements and represent them with an appropriate scale diagram • Lacks understanding of scale drawing and/or scale factors which does not comply with the scale factor • Limited calculations to support cost analysis, budgeting and wastage 	0-34