Year 11 DVC

Designer Birdhouse

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Background:
The Horowhenua is looking to preserve their natural landmarks to attract wildlife and tourists. The first landmark on the list is the Horowhenua Lake.

Issue:
The Horowhenua Lake is full of stoats, cats and other intrusive mammals. To attract small birds back to this area, a protective shelter needs to be designed.

Brief:

Design a protective enclosure where small birds are safe to nest, eat, sleep and live free from danger.

Year 11 DVC

Designer Birdhouse

Design Specifications:

- The design must reflect the style and principles of the designer you have researched.
- You must use sketchup to create a SCALE 3D model for presentation to the council
- Your design must be a safe place for small birds (tomtitt, fantail etc)
- Your design must have sleeping/nesting area
- Your design must have a feeding area safe from predators
- Your design must have a bathing area safe from predators
- The bird house must be elevated and **safe**

Year 11 DVC

Designer Birdhouse

Process:

1. Research - Existing bird houses (4x minimum)
Using the internet and any other sources you would like, research what existing birdhouses look like / function like. This will help you get some idea about what you are designing.
Create sketches of each design you find. Using design terminology, annotate your findings, describing the positives and negatives of each design.

Year 11 DVC

Designer Birdhouse

Process:

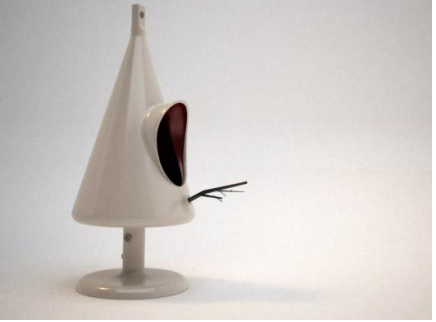
2. Initial Ideas (4x minimum)
Generate ideas for your bird house. It is very important that you show the link between your ideas and the designer that you researched.
You will use these methods to get ideas.
- concept maths
- concept matrix
- collage / modelling

Year 11 DVC

Designer Birdhouse

Process:

3. Idea Development
Refine and review your initial ideas towards a preferred idea.
Explain and justify your choices.
Use Google Sketchup to refine these ideas. You need to create a scale model on sketchup and this will be used later for your presentation standard.
There will need to be materials research and environmental research as well at this stage - so that you know you are creating a design that is fit for purpose.
Remember to keep a record of your changes at each stage of the Sketchup model. It is important that you document the process to show your decision making.



Year 11 DVC

Designer Birdhouse

Process:

4. Final Design

Produce a final design of your Bird house on Sketchup.

You need to produce screenshots of your design that cover the following styles:

- *Front, Side, Top (Plan) view*
- *Isometric View*
- *2 Point View*
- *Interior Views*
- *An image of the design in its native environment*

With every final design comes a great evaluation! In an evaluation you need to write about the positives and negatives of the design.

Write about how you have met the design specifications.

Year 11 DVC

Designer Birdhouse

DUE

20 MAY 2016