

YEAR 12 DESIGN & TECHNOLOGY

# MAJOR PROJECT

## Designer Statement

### NAME

Gabrielle  
Wood

### TITLE

Redesign of a  
flood-prone house

### AREA OF DESIGN

Architecture

Design brief: To design and evaluate a house that is functional and draws from modern design movements including curvature to create an aesthetically pleasing home for a family in a flood prone area. I met the need by creating a house, adapted to the specific location of 23 Wimbledon Avenue, in Narrabeen Lake.

The house reflects the modern design movement using materials, shapes, and curvature, as reflected in the online and physical models. The primary aspect that improved the house's water mitigation, was the use of 'door' like panels, that simultaneously acted as a design/ privacy aspect, that could be adjusted, to avoid flood waters. Additionally, I selected materials that are water-resistant, such as concrete, and faux timbers.

I developed three models, all displaying various aspects of my design. The online model highlights the ideal materials and physical features of the final house. The second model, made from acrylic, demonstrates how the water would flow through the property. The third was a concept model demonstrating the visual appeal and how the features work together.