

# Option One

## DESIGN & TECHNOLOGIES CHALLENGE

You are building a new home in the Logan area.



Design a sustainable home that includes warning alarms (smoke alarms), comparing product design solutions from around the world to create a design suited for Australian flood and fire dangers.	Has designed a home inclusive of many solutions to protect against flood and fire dangers.	Has designed a home with some solutions to protect against flood and fire dangers.	Has designed a home with minimal solutions to protect against flood and fire dangers.	Has designed a home with no evidence of solutions to protect against flood and fire dangers.
You are to research the suitability of your choice of materials, which will withstand flood and fire dangers.	Has provided a large range of materials which will withstand flood and fire dangers.	Has provided some materials which will withstand flood and fire dangers.	Has provided a minimal range of materials which will withstand flood and fire dangers.	Has provided no materials which will withstand flood and fire dangers.
You will need to consider the suitability of the design for flood (on stilts) and fire (built with solid bricks) dangers.	Has used a design very suitable for floods and fires.	Has used some design suitable for floods and fires.	Has used a minimal design suitable for floods and fires.	Has not used a design suitable for floods and fires.
You will need to look at what is needed (e.g. bathroom, kitchen) to build a house and what is wanted (e.g. study, movie room) in your design.	Has included all the necessary items to build a house and has added some wants.	Has included some necessary items to build a house and has added some wants.	Has included a minimal amount of necessary items to build a house and has added some wants.	Has not included all the necessary items to build a house.
You will need to make modifications to your design ideas, refining and replacing the design and materials with more suitable solutions.	Has made many modifications to design ideas, refining and replacing the design and materials with more suitable solutions.	Has made some modifications to design ideas, refining and replacing the design and materials with more suitable solutions.	Has made minimal modifications to design ideas, refining or replacing the design and materials with more suitable solutions.	Has made no modifications to design ideas, refining or replacing the design and materials with more suitable solutions.
Present your final product to the class, providing reasons for your inclusions and exclusions in your design.	Presentation met all requirements.	Presentation met some or most of the requirements.	Presentation met minimal amount of requirements.	Presentation met few or none of the requirements.

