

Working Technologically Student Design Task

Water Sensitive Urban Design

Student Task:

In small teams you are to implement and record a process of design in relation to Water Sensitive Urban Design at your school.

Exploring and Defining the task

- Your team **must use** the information from the Stormwater Audit and an analysis of your findings to undertake further research into Water Sensitive Urban Design options for your school.
- Identify the options for your school following observations, research and interviews with the GA and/or Principal or Teachers
- Develop a design brief in collaboration with your team members
- Design Criteria;
 - Function:* Reduces stormwater issues(sediment, rubbish, pollutants entering your local creek
 - Aesthetics:* the design looks good
 - Environmental Considerations:* reduces volume and velocity of stormwater flow
- Planning, Consider Constraints: time, finance, resources and expertise

Generating and Developing Ideas

- Be creative in your thinking: mind map, brainstorm, sketch and model
- Use research techniques appropriate to the task
- Select techniques for documenting and and communicating your ideas to others. Eg; drawing plans, storyboarding,, modelling, using digital technologies
- Identify a range of appropriate materials for the task
- Investigate the suitability of materials
- Develop criteria to to evaluate and modify your ideas

Producing Solutions

- Test the suitability of materials
- Develop a plan to implement your Water Sensitive Urban Design
- Present an approximate cost of your design and location within the school grounds

Evaluate

- Identify the strengths of your design plan
- Identify the limitation of your design plan
- Undertake peer assessment of the final design plans for each team using the design criteria