



Learning outcomes

Sustainability presentation (secondary schools)

Descriptor	The <i>Sustainability</i> topic explores the design and build considerations and impact of the Stage 3 project on environment and society.
Age group	<ul style="list-style-type: none"> Grade 7 – 8 students
Resources	<ul style="list-style-type: none"> PowerPoint presentation Printed Careers in Constructions flyer Audio-visual equipment Experiment materials: <ul style="list-style-type: none"> 1 Cup of Unfiltered, Dirty Water 1 Empty Cup 1 Clear Plastic Bottle Choice of filter Materials: Tissues, Cotton Buds, Sponge, Cloth, Fine Sand, Gravel etc...
Duration of activity	<ul style="list-style-type: none"> 100 minutes
Curriculum alignment	Alignment to the Australian Curriculum <ul style="list-style-type: none"> Cross Curriculum Perspectives <ul style="list-style-type: none"> Sustainability: Design Design and Technologies <ul style="list-style-type: none"> Knowledge and Understanding: Technologies and Society
Aims	<ul style="list-style-type: none"> Consider the environmental impacts when designing a project such as Stage 3 Explore how innovative design can positively impact the environment Explore a career pathway for a career in the sustainability industry Create awareness about environmental issues and foster a desire for sustainability.
Overview	<ul style="list-style-type: none"> Transport planning Gold Coast Light Rail Stage 3 overview video (2 minutes) Careers in construction Environmental and sustainability advisor roles Stage 3 sustainability initiatives Sustainability video (4 minutes) Activity – water quality experiment
Lesson Ideas	Examples of Lesson Ideas: <ul style="list-style-type: none"> Create a competition to see which group can achieve the cleanest water.

- | | |
|--|---|
| | <ul style="list-style-type: none">• Go through the process with different pollution levels and explore the differences in how long it takes to clean the water. |
|--|---|