

Building Walka

<p>Unit Description</p> <p>Students investigate the materials and equipment the engineers and workers used to build the Water Works. They compare and contrast building methods in the 1800s with modern day methods to understand how times have changed, largely due to the invention of machines. Safety standards have also improved. Students will become familiar with the main features needed to run the Walka Water Works.</p>		<p>Duration</p> <p>Term- 1 2 3 4</p> <p>Weeks _____</p>
<p>Outcomes</p> <p><u>History K-10</u></p> <p>HT2-2 Describes and explains how significant individuals, groups and events contributed to changes in the local community over time.</p> <p>HT-2-5 Applies skills of historical inquiry and communication.</p>	<p>Key Inquiry Questions</p> <p>-What materials and equipment did the engineers and workers use to build the Water Works?</p> <p>-What were the main features needed to run Walka Water Works?</p>	
<p>Assessment Overview</p> <p>Ongoing assessment- student understanding may be assessed through the use of observational checklists, anecdotal notes, contributions to class discussions and a variety of work samples.</p>	<p>Assessment Activities</p> <p>PowerPoint Presentation or Green Screen Film- In groups, students research one main feature of the Water Works. They present a summary of their findings as a PowerPoint Presentation or a Green Screen Film.</p>	
<p>Vocabulary</p> <p>equipment, engineers, workers, build, building, progress, conditions, Messrs, contract, feet, strike, contractors, colony, manual, labour, holes, tunnels, machines, pick, shovel, horse, cattle, tents, site, laying, pipes. filter bed, construction, reservoir, pumphouse, boiler room, workshop, annex, chimney, extension, settling tank, clear water tank</p>		

Historical Concepts	Historical Skills
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The following **historical concepts** are integrated into the lesson sequences:

Continuity and change

- aspects in their community that have changed over time or remained the same

Cause and effect

- causes of change in the local community

Perspectives

- views on the life and experiences of early Hunter Valley residents

Empathetic understanding

- developing an understanding of the life of early settlers and residents

Significance

- understanding the significant contributions of early settlers and community infrastructure

The following **historical skills** are integrated into the lesson sequences:

Comprehension: chronology, terms and concepts

- respond, read, write to show understanding of historical matters
- sequence historical people and events
- use historical terms and concepts

Analysis and use of sources

- locate information relevant to inquiry questions in a range of sources
- compare information from a range of sources

Perspectives and interpretation

- identify different points of view in the past and present

Empathetic understanding

- explain why the behaviour and attitudes of people from the past may differ from today



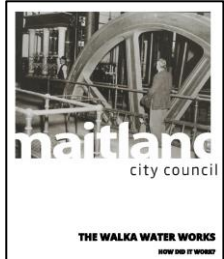
Research

- identify and pose questions to inform an historical inquiry
- identify and locate a range of sources to support an historical inquiry

Explanation and communication

- develop historical texts, particularly narratives and descriptions, which incorporate source material
- use a range of communication forms (oral, written, graphic) and digital technologies

Evaluation

Focus	Teaching & Learning	Resources	Registration
<p>What materials and equipment did the engineers and workers use to build the Water Works?</p> <p>What were the main features needed to run Walka Water Works?</p>	<ul style="list-style-type: none"> • Introduce the topic “Building Walka”. • Key Inquiry Question- What materials and equipment did the engineers and workers use to build the Water Works? • “Hunter River Water Supply Scheme”- The newspaper report gives details of the progress and conditions at Walka. (Maitland Mercury and Hunter River General Advertiser (NSW: 1843 - 1893), Thursday 26 July 1883, page 4). Task: As a class, read the article and summarise. Research any unfamiliar terms. Ask comprehension questions to check student understanding. • Building- Read the slide and discuss. Task: Discuss and record why there was a need for the workers and their families to live on site? • Photos- Read the slide and discuss. Task: Study the following photos and fill in the Venn diagram to compare and contrast building methods from then and now. • Key Inquiry Question- What were the main features needed to run Walka Water Works? • Copy and paste the links into a search engine to watch two videos showing the main features of the site. What did you see? Task: Make a list on the next slide and/or on student worksheets. • Floor plan of the main buildings- Task: Based on the video, can you assemble the floor plan of the main buildings? (You might need to watch the video again). The next slide has the solution. • How Did it Work? Copy and paste the link into a search engine. Go to Teaching Resources, then “How Did it Work?” Read the overview on pages 2 and 3 to learn about the operations at Walka. • Small Group Task- view document for further details. Students are to read about their feature in the “How Did it Work?” document to begin. 	<p>https://www.youtube.com/watch?v=10Jco8mfnPE</p>  <p><small>Walka Water Works fly around 1 3187F3CE 652F 405C 8202 29211E85872E</small></p> <p>https://www.youtube.com/watch?v=ljZNtlzCM4</p>  <p><small>Drone @ Walka Water Works</small></p> <p>“How Did it Work?”</p> <p>https://www.maitland.nsw.gov.au/our-services/community/education-programs/heritage-education-programs/walka-water-works-education-programs/walka-for-teachers</p>  <p>Green Screens</p>	

They may wish to complete extra research to deepen their understanding.

- Allocate each small group a feature of Walka Water Works. There is a table to record groups in the PPP.
- Main features of Walka- are included on slides in the PPP. Images may be used in PowerPoint Presentations or Green Screen Films. Students may wish to present a report, pretending they are in of front of the building or structure.

Features include:

Main Pump House 1887

Boiler Room 1887

Chimney 1887

Eastern Extension to Pump House 1892

Western Pump House 1913

Workshop 1887

Settling Tank 1887

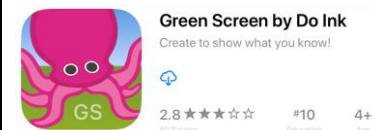
Filter Beds 1-4 1887, 5-6 1908, 7 1913

Clear Water Tank 1887

Reservoir 1887

- Heritage Listed Industrial Complex- Read the information about the National Trust. **Task:** Why is it important to conserve historic sites such as the Walka Water Works?
- Walka Today- Walka Water Works is now known as 'Walka Recreation and Wildlife Reserve' and is managed by Maitland City Council. To view the brochure which gives details of all activities copy and paste the link into a search engine. **Task:** Who has been to Walka? What activities did you do?

- iPad App
Install "Green Screen
by Do Ink "



There is a tutorial in the App to explain how to use it. You can also watch the video on YouTube

<https://www.youtube.com/watch?v=QIH3h19abl>

The idea is to layer a video (with a green screen behind) with still images from the camera roll.

'Walka Recreation and Wildlife Reserve'
[file:///Users/alisonwood/Downloads/walka_a4_brochure_final_1%20\(4\).pdf](file:///Users/alisonwood/Downloads/walka_a4_brochure_final_1%20(4).pdf)

