

AUCKLAND  
  
DOCKLINE  
TRAM

# TRAMS & TECHNOLOGY

WYNYARD LOOP

258

Name: \_\_\_\_\_

School: \_\_\_\_\_

## Introduction

As part of our commitment to the community of Auckland, we take great pleasure in hosting school visits to the **Dockline Tramway**.

To enhance school visits and to provide a clear education focus we provide topic specific units, with relevant **information** and on-site **student activities**.

The topic units range across **primary, intermediate** and **secondary** school and teachers can select those suitable for their students. Activities have been developed with the **curriculum skills** in mind.

Although the over-all approach, in terms of subject is broadly cross-curricular, units are currently provided with links to the following subject areas:

- Science
- Social Sciences
- Technology
- Geography

We also have plans in the future for topic units with links to Art, History of Art and Classical Studies.

Also provided is **background material** on Auckland's trams and tramway network. A 10 minute video showing the history and impact of the tramway system is available to be shown, in the barn, on request.

All educational resources may be downloaded free. Any feedback on how we may further assist you with our educational resources would be much appreciated.

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Compiled by Susan Walker & David Maciulaitis  
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Photographs by David Maciulaitis unless otherwise stated



**WYNYARD QUARTER  
AUCKLAND WATERFRONT**



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## ACTIVITY - Thinking about technology

### Trams and the future of Auckland

Electric trams began running in Auckland in 1902 and were scrapped in 1956 as the trams and tracks they ran on became run down. Trams were replaced by electric trolley buses and later on, diesel buses.

While the trams were old and cumbersome they did have some advantages over buses. If modern technology and design were used to produce trams they could easily become the public transport vehicle of the future with the ability to change our city environment, transport system, economic status and social patterns for the better.

We are **firstly** asking you to **compare** the **old trams** with **modern buses**, to identify **similarities** and **differences**.

**Secondly** we are asking you to identify the **advantages** and **disadvantages** of each vehicle.

**Finally** you need to **draw some conclusions** about what might be the **best form of transport for the future**.

### SIMILARITIES

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### DIFFERENCES

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### SIMILARITIES

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### DIFFERENCES

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**SIMILARITIES**

**DIFFERENCES**



**SIMILARITIES**

**DIFFERENCES**




**SIMILARITIES**

**DIFFERENCES**



**ACTIVITY – Advantages & disadvantages**

Now you have some understanding of tram and bus design, we are asking you to look at the advantages and disadvantages of each.

Advantages	<b>TRAM</b>	Disadvantages
_____		_____
_____		_____
_____		_____
_____		_____
_____		_____
_____		_____

Advantages	<b>BUS</b>	Disadvantages
_____		_____
_____		_____
_____		_____
_____		_____
_____		_____
_____		_____

**RESEARCH AND IDEAS – Supertrams and the future of Auckland**

What could be done to modernise trams to make them the vehicles of choice for the future? Jot down or sketch some design ideas.

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### ACTIVITY - Wynyard Quarter comparisons

Now you have done some thinking about old and new technology and design, here are some other comparisons from the Wynyard Quarter for you to consider.







*Tram 257 & 258 being prepared for service on the Auckland Dockline Tramway*



*40 Horse Power, 600 volt DC, Electric Motor as used on the trams on the Dockline Tramway.*