



The Collingwood Street Trolley Derby  
**KIDS DESIGN CHALLENGE**

Sponsored by Challenge NZ Ltd

Name \_\_\_\_\_  
Year of Birth \_\_\_\_\_  
Phone \_\_\_\_\_  
Mobile \_\_\_\_\_  
Email \_\_\_\_\_

# Design Portfolio

## TOPICS TO COVER

### Concept Drawings:

Sketch what you imagine your trolley will look like  
Illustrate your ideas using *perspective* and *colour*

### Plans:

Draw accurate scale top and side views  
Define the length, width, height and weight

### The Chassis and Running Gear:

Describe what your trolley will be made of  
Explain how it will steer and brake  
Predict how fast it will travel and how long it will take to stop

### Description:

Tell the judges what inspired your design  
Describe the strengths and weaknesses of your design  
Identify the areas you anticipate needing help from a mentor  
Explain why your design deserves to win

### ***Please Note***

- You must limit your *design portfolio* to a maximum of the four A4 sheets of paper in this Entry Form
- Use only **ONE** side of each page
- Include your *name*, your *grade* and your *year of birth* on **EACH** page.
- Your drawings can be created in *pencil*, *crayon*, *paint*, or *Image Editing software*... anything at all - as long as the judges can understand it!

***Good Luck Designing your Ultimate Trolley!***



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**Concept Drawings:**



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**Plans:**



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## The Chassis and Running Gear:



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**Description:**