

NZ Transport Agency Rail Safety Resource – Primary – Level 1 to Level 4

What is worth knowing and doing as a citizen around places on the electrified rail network?

- When you are a citizen you belong, you matter and you make a difference.
- Citizens work together to create safe journeys for everyone around the electrified rail network.

Stay away from overhead wires carrying electrical energy.

The electrical energy that moves trains is always dangerous and always on.

You cannot hear, see or smell electrical energy.

The electrical energy is 100 times more powerful than the electrical energy used at home.

The electrical energy can jump gaps of up to 3 metres.

When electrical energy passes through people, it kills or seriously injures them.

Always use level crossings to get across the tracks.

Trains on the tracks are very big, very fast and very quiet.

Trains take a long time to stop.

It is dangerous to take shortcuts and trespass.

Watch out for the second train.

Obey all warning signs and signals.

Wait until all warning signs have stopped before crossing – there may be a second train.

Look and listen in both directions.

Key Competency self-assessment rubric¹ Highlight the relevant Key Competencies.

Thinking	Managing self	Participating and contributing	Relating to others	Using language, symbols and text
<p>Critically analyse the factors contributing to safe electrified rail networks for all citizens.</p> <p><i>Example – describe, explain and justify ways to stay safe at places on the electrified rail network.</i></p>	<p>Act responsibly when around the electrified rail network as a pedestrian, passenger, cyclist or driver to ensure all citizens keep safe.</p> <p><i>Example – adopt a “sort it and report it” approach to unsafe behaviour around the electrified rail network.</i></p>	<p>Display an awareness of the local issues around creating and maintaining safe electrified rail networks.</p> <p>Be actively involved in community issues around safe electrified rail networks.</p> <p><i>Example – listen, respond and act together to make the electrified rail network a system free of death and serious injury.</i></p>	<p>Interact with others to create safe electrified rail networks.</p> <p><i>Example – demonstrate a commitment to safer outcomes for self, friends, family and whānau at places on the electrified rail network.</i></p>	<p>Interpret and use language, symbols and text in ways that keep citizens safe around electrified rail networks.</p> <p><i>Example – share safe rules and behaviours for places on the electrified rail network.</i></p>

¹ For template versions of these Key Competency self-assessments, see the KC Rubrics document.

English	Mathematics and Statistics	Social Sciences	Science
How can I write an opinion (or argument) to make a difference to the safety of citizens using the rail network?	What measurements, shapes, positions or orientations will help keep citizens safe on the electrified rail network?	How can we take action to keep citizens safe when they interact with places on the electrified rail network?	What action would best keep citizens safe around the electrical energy used to move trains on the electrified rail network?
Opinion and argument writing.	Measurement, shape, position and orientation.	Place – How people perceive, represent, interpret and interact with places.	Energy exists in many forms. Energy can be transformed when things change or are made to .
NZC: English: Creating Meaning: Transactional Language – Opinion/Argument.	NZC: Mathematics and Statistics: Geometry and Measurement: Measurement, shape, position and orientation.	NZC: Social Sciences: Social Studies: Place and Environment.	NZC: Science: Physical World: Physical Inquiry and Physical Concepts: Energy: Electrical Energy.
1. Describe the actions citizens need to take to keep everyone safe around the rail network. (Express an opinion.) [multistructural]	1. Describe a [measurement, shape, position and/or orientation] relevant to staying safe on the electrified rail network. [multistructural]	1. Describe a place on the electrified rail network. [multistructural]	1. Describe how electrical energy is transferred in the electrified rail network in ways that keep citizens safe. [multistructural]
2. Explain why citizens need to take these actions to keep everyone safe around the electrified rail network. (Back up the opinion with reasons and evidence.) [relational]	2. Explain why this [measurement, shape, position and/or orientation] helps citizens stay safe on the electrified rail network. [relational]	2. Explain why this place on the electrified rail network is useful to citizens. [relational]	2. Explain why transferring electrical energy in these ways will keep citizens safe around the electrified rail network. [relational]
3. Create a written text to communicate an opinion/argument about keeping citizens safe around the electrified rail network. [extended abstract]	3. Take action to help citizens use [measurement, shape, position and or orientation] to keep safe on the electrified rail network. [extended abstract]	3. Take action to help keep citizens in your community safe around places on the electrified rail network. [extended abstract]	3. Take action to share this information to help keep citizens safe around the electrified rail network. [extended abstract]