Everyone is a road user – activities list

# Introduction

“Wicked problem” investigation. Finding out what students know about the challenges (problems and opportunities) for road users on local roads before we start.

# Section 1: What are the “wicked problems” (problems and opportunities) for local road users wanting safer travel?

**Bringing in ideas**

These activities provide opportunities for students to bring in ideas about the challenges and opportunities of keeping safe on our roads.

**Activity 1.1. Wonder about a local road in the real world and in poetry [English – Making and Creating Meaning]**

* 1.1.1. A half-hour walk
* 1.1.2. Simply looking
* 1.1.3. Found poems
* 1.1.4. Sense poems

**Activity 1.2. Describe the use of visual text to tell stories about the roads and road users. [English – Making and Creating Meaning – Visual Texts]**

**Activity 1.3. Calculate the area that parked cars cover. [Maths and Statistics – Measurement and Shape]**

* 1.3.1. What are the hazards for people, places and the planet when we create parking spaces for cars?
* 1.3.2. How much space is used for car parking?

**Activity 1.4. What do road users ask about a local road? [Maths and Statistics – Statistics – Statistical Investigation]**

* 1.4.1. Questions for the local road
* 1.4.2. Finding out what people think about a local road
* 1.4.2.1. Surveying road users
* 1.4.2.2. Interviewing road users

**Activity 1.5. How do road users move? [Science – Physical World | Nature of Science]**

* 1.5.1. Pushes and pulls
* 1.5.2. What do forces do?
* 1.5.3. Unbalanced force detectives

**Activity 1.6. What do road users see? [Science – Living World]**

* 1.6.1. Senses and living things
* 1.6.2. What is light?

# Section 2: Explain the “wicked problems” (problems and opportunities) for local road users wanting safer travel

**Relating ideas**

These activities provide opportunities for students to connect ideas about the problems and opportunities for citizens/road users wanting safer travel on local roads.

**Activity 2.1. Compare road users: using local roads and as represented in poetry. [English – Making and Creating Meaning]**

* 2.1.1. Concept map
* 2.1.2. Real-time observation
* 2.1.3. Compare poems about cycling

**Activity 2.2. Compare road users: using visual text. [English – Making and Creating Meaning]**

**Activity 2.3. Compare the area covered by a parked vehicle with the total area needed to park. [Maths and Statistics – Measurement and Shape]**

**Activity 2.4. Connect the questions that road users ask about a local road. [Maths and Statistics – Statistics]**

* 2.4.1. Classifying (sorting and grouping) the questions about a local road
* 2.4.2. Analysing what people think about a local road

**Activity 2.5: What types of forces do road users experience? [Science – Physical World]**

**Activity 2.6: Explain how road users see other road users. [Science – Living World]**

* 2.6.1. How do we see?
* 2.6.2. Using your eyes to look at someone else’s eyes
* 2.6.3. Dissecting a cow’s eye
* 2.6.4. Reaction to an incoming pedestrian (reaction times)
* 2.6.5. How much time does it take to react to a stimulus? (Measuring reaction time)

# Section 3: Extend ideas about the “wicked problems” (challenges and opportunities) for local road users wanting safer travel

**Extending ideas**

These activities provide opportunities for students to extend their thinking and experiment with ideas and information about safer travel for road users on local roads.

**Activity 3.1. Write to an author/poet about safer travel for road users. [English – Making and Creating Meaning]**

* 3.1.1. How is using the road portrayed in poetry and children’s books?
* 3.1.2. Writing a poem describing the actions of a road user on a local road

**Activity 3.2. Create a visual text for road engineers, architects and builders.[English | Maths and Statistics – Measurement and Shape]**

* 3.2.1. A futuristic liveable street
* 3.2.2. The bike shed

**Activity 3.3. Is parking an issue? [Maths and Statistics – Measurement and Shape]**

**Activity 3.4. What are the challenges (problems and opportunities) for road users on a local road? [Maths and Statistics – Statistics | English]**

**Activity 3.5. Consider road users and local roads as wild life and waterholes. [Science – Physical World]**

**Activity 3.6. Does “I can see you” mean “you can see me”? [Science – Living World]**

* 3.6.1. Exploring peripheral vision
* 3.6.2. Stopping distances
* 3.6.3. Extend your vision