



Main lesson plan

Topic: Road Safety

Year level: 6

Title: The Road and Me

Duration: 60 minutes



Western Australian Curriculum links

Health and Physical Education

Strand: Personal, Social and Community Health

Sub-strand: Being healthy, safe and active

Content:
Strategies that promote a healthy lifestyle

Sub- strand: Contributing to healthy and active communities

Content:
Preventive health measures that can promote and maintain community health, safety and wellbeing

English

Strand: Literacy

Sub-strand: Interpreting, analysing and evaluating

Content:
Use comprehension strategies to interpret and analyse information and ideas, comparing content from a variety of textual sources including media and digital texts

Sub-strand: Creating texts

Content:
Use a range of software, including word processing programs, learning new functions as required to create texts

Science

Strand: Science Understanding

Sub-strand: Physical Science

Content:
Energy from a variety of sources can be used to generate electricity

Strand: Science as Human endeavour

Sub-strand: Nature and development of science

Content:
Important contributions to the advancement of science have been made by people from a range of cultures

Sub-strand: Use and influence of science

Content:
Scientific understandings, discoveries and inventions are used to solve problems that directly affect peoples' lives



Lesson Objectives:

- Students identify natural energy sources
- Students design an energy efficient car using solar power as the energy source
- Students evaluate the impact of congestion on our environment
- Students compare modes of transport and their energy consumption
- Students recognise different road safety aspects

Materials/ Equipment and Preparation:

- Class set of iPads or computer lab
- Download 'The road and me' for free in iBooks on your iPads, and with iTunes on your computer. The interactive book features work best on an iPad.
- Internet connection to access the RAC Little Legends Club game <http://littlelegends.rac.com.au> and <http://rac.com.au/news-community/environment/electric-highway-and-electric-vehicles/electric-vehicles-faqs>



Time	Content
5 mins	<p>Introduction: <i>In today's lesson we are going to recap important road safety messages, some that you may already know, others that you may have never heard of before. We are going to do this by following a story on our iPads (or computers) and completing challenges along the way. Finally we are going to discover why and how cars have such a significant impact on the environment?</i></p>
30 mins	<p>Activity 1: Renault- The Road and Me</p> <ol style="list-style-type: none"> 1. Place students into small groups. 2. Students are to work through the Renault – ‘The Road and me’ story book, completing the challenges along the way. 3. Students will reach the mobility section of the book where they are asked to design their own solar car. If students are using iPads and they have completed the task, ask them to take a screen shot of their image. In the next activity ask selected students to explain their solar powered car designs. 4. After completing the story book, ask students for one thing they learnt from the book about road safety.
15 mins	<p>Activity 2: Traffic, the Environment and renewable energy</p> <ol style="list-style-type: none"> 1. <i>After reading ‘The Road and me’ how do you think cars and the environment link together?</i> 2. <i>Would anyone like to share their solar powered car designs?</i> 3. <i>How do you think solar powered cars are going to help the environment? Who would be happy to be a passenger in their solar powered cars? Could we have solar powered buses and do you think that would help the environment?</i> 4. <i>What is an electric car?</i> 5. <i>Let's find out a little more about what electric cars do and why they are good for the environment.</i> 6. <i>Log onto the link below and read all the details.</i> http://rac.com.au/news-community/environment/electric-highway-and-electric-vehicles/electric-vehicles-faqs 7. <i>After completing your reading on electric cars, do you think they are an effective mode of transportation that is environmentally friendly?</i> 8. <i>What was one interesting fact you discovered about electric cars?</i> 9. <i>Did you know Western Australia now has its very first electric highway, this means that electric cars have points around WA where they are able to charge. Therefore meaning the electric cars can travel further and more efficiently without harming the environment. The electric highway network goes from Perth all the way down to Augusta.</i> 10. Show students the map of electric highway and the power stations along the way. http://rac.com.au/news-community/environment/electric-highway-and-electric-vehicles



7 mins	<p>Activity 3: RAC Little Legends Game Time</p> <p><i>In the story book activity we were reminded of the road rules we should follow to ensure we are all safe road users, whether that be on bike, a passenger in an electric car or a person walking on the footpath. It's time to put all your road safety knowledge to the test.</i></p> <p><i>We are going to play a game simulation; you will have control of one of the RAC Little Legends Characters. This simulation has been sped up to discover if you can spot the hazards in different, intense situations where you have little time to make a decision.</i></p> <ol style="list-style-type: none"><i>1. Firstly we are going to get into groups.</i><i>2. Next we going to log onto the Year 5/6 game (presenter uses an iPad so demonstrate each instruction and what the pages look like).</i><i>3. Now it your turn to select a character then select the bike as your mode of transport.</i><i>4. Once you have selected your bike, you can choose which route you would like to take, a or b.</i><i>5. Press' let's go' when you're ready to play the game.</i><i>6. The purpose of the game is for you to get the characters to school safely. This can be achieved by using the space bar to slow down when the situation becomes unsafe for your character e.g. keeping an eye out for cars reversing out of their driveways.</i>
3 mins	<p>Conclusion: <i>In today's lesson we put our road safety knowledge to the test by thinking about risky behaviours in complex situations such as the Little Legends Club game. We learnt the importance of being a smart traveller for the environment and now you should think 'is there a more environmentally friendly way to get to the shops?' before getting into a car and going to the shops.</i></p>