

Memorial Park 3 Video Answers

Tuesday 11 November 2014

1. Memorial Park Project Update

Catch up with Russell Scoones on the steps of the National War Memorial as he gives you a rundown of progress on the Memorial Park project since the last field trip in May 2014.

1. List some of the changes Russell mentions.
 - Tunnel roof finished; roading finished; tunnel electrical and mechanical systems finished.
2. Why is today significant?
 - Armistice Day.

Next step learning: Have a look at some videos from the second *Memorial Park* field trip to get more of an idea on the progress that has been made since last May.

2. Drive Through the Arras Tunnel

It is time now to take a drive through the new Arras Tunnel.

1. Although currently blank, what has the electrical sign been showing?
 - That cyclists and pedestrians cannot go through the tunnel.
2. What is special about the lighting in the tunnel?
 - They can be controlled depending on the light conditions outside the tunnel.
3. What do the poppies represent?
 - The soldiers who died at Gallipoli.

Next step learning: Sketch part of the Arras Tunnel. Compare Arras Tunnel with other tunnels you know of.

3. New Road to Arras Tunnel

Site Engineer Rob Dickson explains how a whole new piece of road had to be put in place to take traffic into the tunnel.

1. Where are you right now?
 - Corner of Buckle and Sussex Street.
2. What does the polymer modification in the bitumen help with?
 - Longevity (ie the road surface will last a long time).
3. What happened to the traffic on the night when the road leading into the tunnel had to be completed before opening?
 - It was diverted through town.

Next step learning: Find out if a State Highway project is happening near your town

<http://nzta.govt.nz/network/projects/results.html>.

4. Remote Traffic Operations

Out in Johnsonville there is a very interesting building known as TOC. Get special permission to go inside and find out all about it.

1. What does TOC stand for?
 - Transport (actuallyTraffic) Operations Centre.
2. What “happens” at the Centre?
 - Cameras are monitoring the road networks in order to keep drivers safe.
3. Is TOC responsible for monitoring drivers breaking the law?
 - No but they can assist the police if needed.

Next step learning: Find out more about TOC here <http://www.nzta.govt.nz/resources/how-the-nzta-keeps-you-moving/docs/how-the-nzta-keeps-you-moving.pdf>.

5. Tunnel Control with Smart Software

It's Wayne's World – but not as you might know it! This is more to do with clever software helping traffic operations.

1. Operators at TOC are able to control cameras in the Arras Tunnel to pan, t_____ and z_____. Fill in the missing words.
 - Tilt and zoom.
2. What can the “intelligent cameras” tell operators?
 - If a vehicle has stopped, if something falls off a vehicle, if a cyclist or pedestrian is going through the tunnel.
3. What happens if the system picks up an incident?
 - An alarm is set off to alert the operator.

Next step learning: Create a flow chart to show your understanding of how this operating system works.