Grade 3 – Science and Technology – Understanding Structures and Mechanisms
Strong and Stable Structures

Uncover the mysteries of the CN Tower while learning about the importance of form, function, strength, and stability to a structure’s design and construction.

Join Manny and Emma as they investigate the CN Tower and the various factors that had an impact on its design through a graphic novel style video presentation. Students will then have an opportunity to explore the CN Tower themselves as they survey the city from above and search for the answer to various curriculum linked questions.

Bookings include:

- An educator’s guide with pre and post visit activities to tie your class outing back to learning in the classroom
- On-site curriculum based graphic novel style video presentation
- Self-guided tour of the CN Tower including the Look Out and Glass Floor levels
- Curriculum linked worksheets
- Lunch options available (additional charges apply)

The Grade 3 - Strong and Stable Structures program explores the three “Big Ideas” as outlined in the Ontario Curriculum and relates these to the CN Tower itself:

<table>
<thead>
<tr>
<th>Big Ideas</th>
<th>CN Tower Program Content</th>
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<tbody>
<tr>
<td>A structure has both form and function</td>
<td>The CN Tower is a Wonder of the Modern World, built as a communication tower to transit radio signals above all of the other tall buildings being built in the city of Toronto (primary function). The architects wanted to build something that would be able to showcase the great advances in Science and Technology being developed in Toronto, while at the same time providing locals and tourists with spectacular views of the city. This became the secondary purpose or function of the CN Tower, to provide observation levels for viewing the city below. The CN Tower is a tall, triangular shaped building with 2 “pods” towards that top that house the various observation levels (form).</td>
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<td>Structures are affected by forces acting on them</td>
<td>The CN Tower was to be taller than any other in the world and was to hold the weight of visitors as well as a variety of equipment. Wind, rain, lightning, and weight were among the various forces that would need to be considered in the design and construction of the CN Tower.</td>
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<td>Structures need to be strong and stable to be useful</td>
<td>To be useful as a communications tower with Observation levels for the public, the CN Tower had to be strong enough to stand tall in one fixed spot. It was built so tall to account for the possibility that the city may some time construct buildings even taller than those already built.</td>
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Available: Monday – Friday except Holidays
Time: 9:00 am – 3:00 pm
Cost: $13.50 per person
Chaperones: 1 complimentary for every 10 students

Prices are inclusive of applicable taxes, valid through September 3, 2012

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