

Phone: 09 438 9630 ext 2 **E-mail:** education@whangareimuseum.co.nz **Web:** www.whangareimuseum.co.nz
SH14 Maunu PO Box 10135 Te Mai Whangarei 0143

Maths, Science and Technology Workshops

These active teaching workshops involve investigations with a maths, science and technology emphasis. Objects and interpretation from the Museum collections are used to focus the theme of the exploration. There are demonstrations, explanations and lots of participation. Learn by doing and experiencing in scenarios relating to the history of Heritage Park.

Each programme is a full day (9.30 – 2.30 approx) on site with organised activities.

Although intended for Intermediate and Secondary students, programme content can be adapted for different age and ability. Programmes may relate to more than one Museum in the LEOTC partnership.

A Brief History of Time (with Claphams Clocks)

When did time begin and when did it become important to measure time? Find out the ingenious methods that have been used throughout the centuries. Explore the fascinating collection of Archibald Clapham and discover how mechanisms, movement, engineering and science are combined to entertain as well as tell the time! Design your own clocks and use technology to make accurate timing mechanisms.

Going round in circles

Discover the movers and shakers of wheeled transport. Investigate circle geometry using examples from the Museum's transport collection. Explore incremental and radical design and innovative engineering. Build and test your own drag racer.

Kiwi Connexions

Observe the kiwi in his natural habitat and learn about other creatures who share his nocturnal lifestyle. Discover how systems and control are used to conserve kiwi populations. Find out about kiwi threats and dangers. Investigate native birds, food chains, adaptations and what make the kiwi unique.

Mathemagical

Find the hidden polygons in the Heritage Park. Discover amazing mathematical numbers and figures. Make up heritage tales with the help of the ancient Chinese Tangrams. Experiment with symmetry and find out how geckos tessellate!

Mechanical Marvels

Investigate a variety of different forces and mechanisms using objects from the Museum's toy collections. Discover the 'might five' mechanisms and make a timeline of moving and mechanical invention. Make your own moving toy using your new knowledge.

Murder, Mystery and Mayhem at the Museum

A crime has been committed at the Museum and it's up to you to solve it! Can you use your detective skills and the forensic techniques of 100 years ago to find the culprit? A fascinating way to experience the development of science, criminology and technology over the past century.

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Puppets and Pop-ups

Explore the history of toys by investigating objects from the handling collection. Discover the different ways of making puppets and pop-ups. Enjoy traditional Victorian puppet plays and those from other cultures. Make your own simple puppet using your new knowledge.

Potions and Possibilities (with Northland's Health & Medicine Museum)

Investigate the timeline of medicine, from mould to magic bullets. How has the modern pharmaceutical industry developed? Discover the world of old Whangarei's apothecaries and delve into Northland's medical past. Find out about the origins of medicine through ethno botany. Create your own herbal products using the healing properties of plants.

Rocket to the Moon

An energetic workshop for all budding astronauts! Trace the history and development of flying machines through many different cultures and New Zealand's pioneer innovators. Experiment with the science of flight. Make your own mini kite and hovercraft. Build and launch a rocket!

Coming later in the year...

Building bridges

Designed by nature (with Whangarei Art Museum)

Kiwi Café

Living fossils

Lurking in the shadows (with Northland's Health & Medicine Museum)

Matariki

Strike a light (with Hikurangi Coal Museum)

It may be possible to involve experts from the Clubs and Societies at Heritage Park as part of your educational experience. It is also possible to carry out these programmes at other museum venues. Some additional costs may be involved and all subject to availability. Please ask the Educator for details.