

# Imagination

# FACTORY

invent

and

play

Developed by **Questacon**



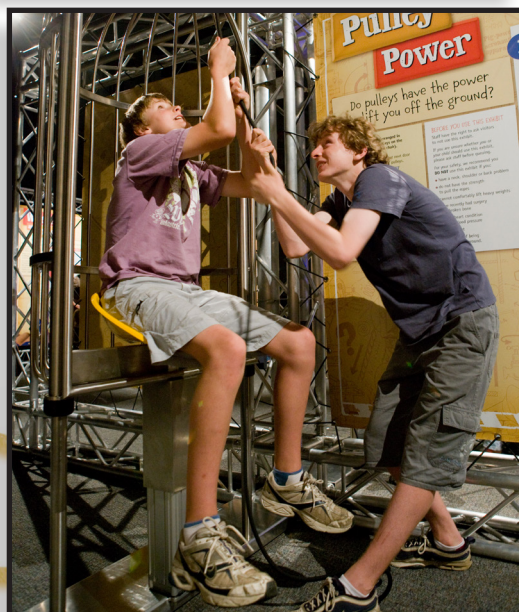
**QUESTACON'S IMAGINATION FACTORY—INVENT AND PLAY EXHIBITION EXPLORES THE BASIC MECHANICAL TOOLS AND SIMPLE MACHINES USED IN EVERYDAY LIFE.**

*Imagination Factory* is a hands-on exhibition that challenges the idea that high-tech electronics are the most important technologies in our lives by giving visitors the opportunity to experiment with gears, cams, levers, pulleys, pneumatics, wheels and electric circuits.



Visitors can learn how thieves break into safes by cracking a cam lock, perform a musical tune using pulleys, race horses using gears, play 'rock, paper, scissors' using electrical circuits, and use camshafts to make a dog jump or wriggle in different ways.

Visitors will discover that pistons have a range of uses transferring pressure and force via a seesaw, lifting masses by applying force, and lifting or lowering heavy things in order to navigate a maze.



Visitors can observe how gears work to turn car wheels at different speeds, generate an electric field to illuminate lights, and power electric items with batteries, photovoltaic cells and hand cranks to animate a cartoon face.

*Imagination Factory* is suitable for visitors aged 10 years and older, and has links to the Australian Curriculum across all years.

*Imagination Factory* is available for hire. The exhibition consists of 18 exhibits and requires a display area of 450 m<sup>2</sup>.

For further information visit the website  
[Questacon – The National Science and Technology Centre](http://Questacon - The National Science and Technology Centre)

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Current as of July 2019 [19285]



Australian Government  
Department of Industry,  
Innovation and Science

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The National Science and Technology Centre