

Teacher Guide

Feel The Forces



Levels : Early, First & Second
Maximum Number of Pupils: 30

- Duration:**
- **Early - 30 mins**
 - **First - 45 mins**
 - **Second - 60 mins**

What to Expect

Working in small groups, pupils will observe and describe the effects of simple forces through a series of hands-on activities.

What is Covered

- What a force is (push/pull)
- Gravity, its effects, and how it acts the same on all objects on Earth
- Magnetic forces, how they attract and repel, and their uses
- Electrostatic force
- Friction and its effect
- Air resistance

Curriculum for Excellence links

We have identified the Curriculum for Excellence experiences and outcomes to which this workshop can most significantly contribute:

Early Level **SCN 0-07a**

Through every day experiences and play with a variety of toys and other objects, I can recognise simple types of forces and their effects.

First Level
SCN 1-07a

By investigating forces on toys and other objects, I can predict the effect of the shape or motion of objects

First Level
SCN 1-08a

By exploring forces exerted by magnets on magnets and other magnetic material, I can contribute to the design of a game.

Second Level
SCN 2-07a

By investigating how friction, including air resistance, affects motion, I can suggest ways to improve efficiency in moving objects

Second Level
SCN 2-08a

I have collaborated in investigations to compare magnetic, electrostatic and gravitational forces and have explored their practical applications.