



## Push it and pull it - KS1 Challenge Sheet

Making things move. Anything we do to make things move is either a push or a pull. Let's explore some of these forces - magnetism, friction, weight and air resistance. Use force meters to measure forces.

### **Educational objective**

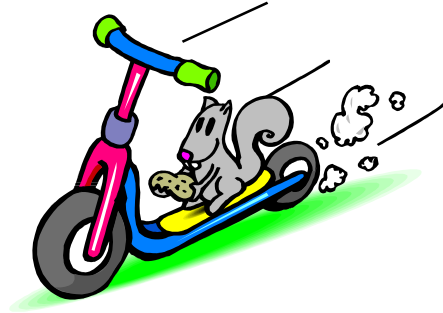
To meet 'forces' in everyday situations and relate them to pushes and pulls.

### **Approach**

Whole class introduction using volunteers to demonstrate forces in familiar situations. Group activity with children working in pairs to make a K'NEX vehicle which can be moved in different ways (eg push/pull with hand, blow, magnets, put at top of slope etc).

### **Specific skills to be developed**

Science AT 4 - forces



### **Cross-curricular links**

Science, maths, D&T

### **Ideas for extension activities**

Investigate vehicles on ramp. What affects distance travelled?

### **Equipment we will provide:**

boxes of K'NEX

K'NEX wheels

magnets

string

### **Subject skills / Desirable outcomes**

Forces and motion

Experimental & investigative science

Shape, space & measure

### **Life skills**

Innovation skills

Problem-solving skills

Team working skills

Communication skills

A 'can-do' approach