



## Move that load - KS1 Challenge Sheet

Some things are too heavy for us to pick up or even move. Every day we use machines such as cranes, fork-lift trucks or tractors. Can you design and build a machine which will lift or move a heavy load?

### ***Educational objective***

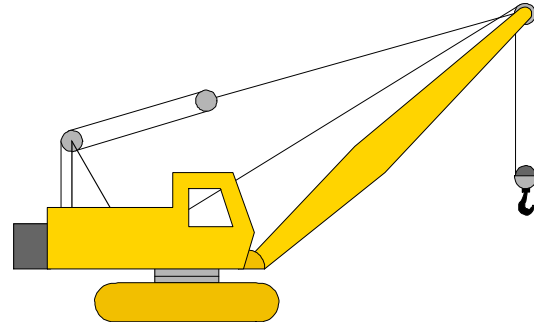
To provide an opportunity for problem solving, decision making and cooperative learning.

### ***Approach***

Whole class discussion about the sort of machine that would be required to move a heavy load - crane, fork-lift truck, tractor etc. How can we help? Group activity with the children working in pairs to construct a machine to move a heavy load.

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

Manipulative, designing and making skills, social and problem solving skills.



### ***Cross-curricular links***

Science, Design & Technology.

### ***Ideas for extension activities***

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

boxes of K'NEX

K'NEX wheels

loads

string

figures

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

Structures

Mechanisms

Designing skills

Making skills

Shape, space & measure

### ***Life skills***

Innovation skills

Problem-solving skills

Team working skills

Communication skills

A 'can-do' approach