



Christmas Cracker - KS1 Challenge Sheet

Design and build a model of a Christmas novelty. Use a simple electrical circuit to add a light. Does your model need more lights or a sound?

Educational objective

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

Approach

Whole class discussion about Christmas traditions. Group activity with the children working in pairs to construct a simple circuit. The children will then use K'NEX to make a model of a Christmas tree or a Santa's sleigh which will carry some sacks.

Specific skills to be developed

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



Cross-curricular links

Science, D&T, RE

Ideas for extension activities

Make other Christmas novelties eg illuminated Nativity scene, Rudolph with flashing nose, angel etc

Equipment we will provide:

boxes of K'NEX

Santas

battery packs

bulbs

crocodile clip wires

switches

Subject skills / Desirable outcomes

Designing skills

Structures

Electricity (D&T)

Life skills

Innovation skills

Problem-solving skills

Team working skills

Communication skills

A 'can-do' approach