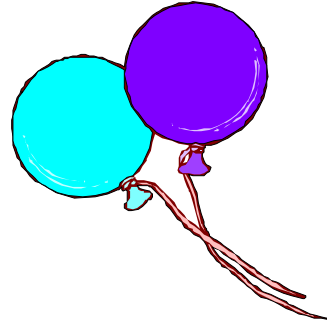




Frozen balloons - KS2 Challenge Sheet

Solids, Liquids and Gases - how are they different? Investigate with balloons. Can one be changed to another and back again? How much gas is in a bottle of lemonade? How does a submarine dive and surface? What are 'hydraulics and pneumatics'?



Educational objective

To help provide an understanding of solids, liquids, gases and their properties.

Approach

Whole class introduction leading to practical group activities where the children use their senses and observation skills to clarify their understanding of solids, liquids and gasses.

Specific skills to be developed

Science - solids, liquids, gases.
Practical/process skills.

Cross-curricular links

Science activity which applies maths and language skills.

Ideas for extension activities

Explore properties/uses of other materials. Investigate thermal insulation, undertake weather study (evaporation/condensation)

Equipment we will provide:

air/water/ice balloon sets

balloons

small 'pop' bottles

syringe sets

cartesian divers

aquarium

Subject skills / Desirable outcomes

Materials and their properties

Experimental & investigative science

Shape, space & measure

Life skills

Innovation skills

Problem-solving skills

Team working skills

Communication skills

Investigation skills