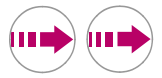




HOT AIR BALLOONS

LEVEL OF DIFFICULTY



OUTLINE OF ACTIVITY

By using large sheets of tissue paper and a template, a simple hot air balloon can be constructed. The balloon will then rise if the air inside is heated using a hair dryer. Members can work in groups to make a large balloon if the template is scaled up.

EQUIPMENT

Quantities are based on a **make** and **take** approach to produce 20 hot air balloons.

- coloured tissue paper
- pritt sticks x 10
- balloon templates x 20
- card
- string
- hair dryer x 2

SCIENCE CONTEXT

Forces, that objects are pulled downwards because of the gravitational attraction between them and the earth.

Density, warm air is less dense than cool air.

SCIENTIFIC EXPLANATION

When air particles inside the balloon are heated they move further apart and the air becomes less dense (lighter) than the cold air surrounding the balloon. The hot air balloon therefore rises.