



St Leo's and Southmead
Catholic Nursery and Primary
School

Year
Four

Science Knowledge Organiser

Spring
Term 2

Amazing Activities

- make a parachute

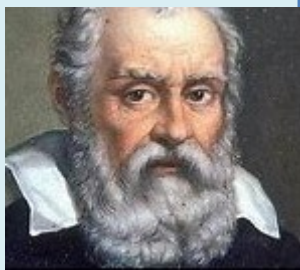
Key Concepts

Air resistance is a force

Gravity is a force that pulls objects to the ground.

Galileo Galilei (1564 - 1642) was an Italian scientist and mathematician who wondered about this.

In 1590, he decided to carry out an investigation to find the answer.



He climbed to the top of the Leaning Tower of Pisa with two balls of similar shape and size, but of different masses. He dropped both of the balls from the top of the tower at the same time. Both balls hit the ground at the same time.

2 objects with different masses fall at different speeds on the Earth but fall at the same time on the moon due to Air Resistance

Children to design a parachute and a fair test to investigate air resistance

Air resistance

Objectives

- ◆ *explore the effects of air resistance by observing how different objects such as parachutes and sycamore seeds fall.*
- ◆ *They should experience forces that make things begin to move, get faster or slow down.*
- ◆ *make a variety of parachutes and carrying out fair tests to determine which designs are the most effective.*



Plan

What variables can we change?

The variable we could measure or observe....

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Key Vocabulary

gravity	a force that attracts a body towards the centre of the earth
mass	Similar to weight—the amount of force it takes to move the object
resistance	It prevents or slows down something that is moving
speed	How far something moves within a set period of time
Fair test	An investigation to answer a scientific question—what did you think would happen
investigation	Finding out whether what you think will happen is true or false
parachute	Usually made out of thin fabric to slow down something moving through the air



Curriculum Links

DT Link: design and make a parachute

English Link: Research Galileo using books and websites

A Fair Test

Nurture, Inspire, Succeed