

Hogarth Academy

Term taught: Autumn **Spring** Summer

Core basic skills
Writing: The children will learn to write Persuasive texts Narrative Explanation Instructional Writing
Reading: the children will learn these reading skills Skimming, scanning, quoting, inference, deduction, referring Guided Reading – Chose own texts for groups to read
Numeracy: the children will learn these mathematical skills Place value Addition / Subtraction / Multiplication / Division – Focus on applying to solve problems Algebra / Fractions / Decimals/Percentages
Computing: the children will learn the following skills Produce a Powerpoint about their inventions to support their presentation Inserting images / animations / designs on slides

Topic Title: Eureka
The topic challenge is: To host a gallery of designs created by the children We will share this with: Families
Healthy Lifestyles: PE: Hockey / Tennis / Dance PSHE/SEALS: Relationships and changes
Global Dimension: RE: Easter Story History: To research famous inventors and inventions and how they have changed our lives. The history of robotics.
Environmental Challenge: Eco – Other forms of power e.g. wind/solar/living roof Outdoor learning: to create a wind powered vehicle
Technical Work: DT: To design a new innovative product and present to Dragon’s Den Science: Electricity, magnets and forces/Light and sound
Creative Learning: Art: Work by Paul Kelphe and Ivo Pannaggi. Art based on machinery. Music: Create pieces of music using Audacity

Main subject: the children will learn the following skills compare how things move on different surfaces; notice that some forces need contact between two objects, but magnetic forces can act at a distance; observe how magnets attract or repel each other and attract some materials and not others; compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials; describe magnets as having two poles; predict whether two magnets will attract or repel each other, depending on which poles are facing; notice that light is reflected from surfaces; recognise that light from the sun can be dangerous and that there are ways to protect their eyes; recognise that shadows are formed when the light from a light source is blocked by a solid object; find patterns in the way that the size of shadows change; suggest improvements and predictions for further test; explain how the muscular and skeletal systems work together to create movement; explain different ways that they can sort the same group of materials and explain their reasons; explain why their shadow changes when the light source is moved closer or further from the object	
Cross Curricular Writing: Application of skills Explanation/instruction of how own inventions work A persuasive pitch to sell their idea Advert to promote product Debate – fossil fuels or renewable energy	
Cross Curricular Reading: Application of skills Research: Different forms of energy / debates / famous inventors and inventions Use of books/internet	
Maths in topic – problem solving Art based – Planning design of art based machinery. Linear problem solving e.g. wing span / speed / distance Friction to distance travelled	Communication: how will the children reflect on their independent learning? Feedback Friday Green pen actions Take the Lead
Visits: Space Museum? Cadbury World?	