



Easter Camp Programmes 2019

Daily Monday-Friday, 9.30-3.30 (8.45am free early drop-off), 4-7 and 8-12 years
(age adjusted & separated groups)

- The Academy, Holiday Inn London Kensington Forum, entrance Courtfield Road, London SW7 4DN, (with secure outdoor space for breaks), 2 mins from Gloucester Road tube station

- Swiss Cottage Library, 88 Avenue Road, London NW3 3HA

1-5 April 2019

Faster, Higher, Deeper, Further

8-12 April 2019

The Science Geniuses Who Changed the World

15-18 April 2019

The Wonders of Biology

Faster, Higher, Deeper, Further! 1-5 April 2019

Join us for a week of discoveries of the most amazing inventions of humanity: hot air balloons, airplanes, rockets, cars, submarines and Mars exploration rovers! We will also learn the stories of people who wanted to explore the unknown and dared to dream big!

Day One: Let's Move!

Simple machines wheels and axel

Steam engine and James Watts motors

The evolution of cars

Driving faster than the speed of sound (supersonic cars)

Green energy

Day Two: Up in the Air

Brothers Montgolfier and first hot air balloons

Feathers, birds and bats

The secret of flight

From Da Vinci to Wright Brothers

Roaring into the jet age

Day Three: Adventure in Rocket Science

Konstantin Tsiolkovsky and the first rockets

Beat the gravity: Blast off (forces of aerodynamics)

Sputniks, space shuttle, Apollo 13, ISS

Engineering design challenges in building rockets

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How fast is light?

How to become an astronaut

Day Four: Down under the Ocean

The science behind sink versus float (buoyancy)

History of navigation and great explorers

Tools we use to navigate

Brunel's great steam ships

Deep Sea diving in a Submarines

Echolocation or how submarine see underwater

Day 5 The shape of Things to Come!

Faster, further into the future!

Who wants to be an engineer

Space missions

Time travel and wormholes



The Science Geniuses Who Changed the World, 8-12 April 2019

This science week is designed to familiarise young scientists with the work of some of the greatest scientists and their fascinating discoveries. Stephen Hawking, Leonardo da Vinci, Galileo Galilei, Isaac Newton, Robert Hook Archimedes, Charles Darwin, Nicola Tesla, Albert Einstein, Rosalind Franklin, Marie Curie, Katherine Johnson, Louis Pasteur, Rachel Carson and others. We will learn about brilliant minds and Eureka moments behind the most important scientific breakthroughs: atoms, DNA, evolution, forces, electricity, mechanics, gravity, medicine, light, space travel and much more!

Day One:

Franklin, Crick and Watson and the secret of DNA
Stephen Hawking and the black holes
Isaac Newton and his laws of motion and optics

Day Two:

Nicola Tesla and the giant thunder collector
Katherine Johnson and the rocket science
Archimedes and the crown challenge
Mary Anning's fossils

Day Three:

Alessandro Volta and the first battery
Robert Hook and the miraculous microorganisms
How Edward Jenner, Alexander Fleming and Louis Pasteur saved the world
Elon Mask and the exploration of Mars

Day Four:

Charles Darwin and the survival of the fittest
Inge Lehman and the science of earthquakes
Alfred Wegener and Pangea
Rachel Carson or how to take care of our planet

Day Five:

Galileo Galilei, Nicolaus Copernicus and the search for truth
Dorothy Hodgkin and the world of crystals
Leonard da Vinci and the secret of flight
Kingdom Brunel and his big engineering dreams



The Wonders of Biology, 15-18 April 2019

This series of workshops explore the wonderful world of Biology. Why is the world so diverse and how are various species interconnected? What will happen to us if the bees become extinct? What are amphibians and why are they so vulnerable to ecological disasters? Can we bring back to life the dinosaurs and can we, humans, survive without the animal world? Are spiders, bees and ants important? The children will learn about animal and vegetable cells, microorganisms and their importance. We will explore various habitats and why it is so important to keep our planet clean and healthy.

Day One:

Carl Linnaeus and the animal kingdom
The world of reptiles
Charles Darwin and his discoveries
Biomes and habitats: from desert to arctic
Adaptation and evolution, do we still evolve?

Day Two:

Magnificent Plants
Plant' structure
What is chlorophyll and why it is important
Seeds, germination
Gregor Mendel and the experiments with plants
Why do we need to keep the planet green
Carbon Footprint and why it is important

Day Three:

Biology of Oceans
Intelligent creature of the oceans: octopuses and whales
Amphibians and why we should protect them
Keep the oceans clean

Day Four:

The world of insects
Imagine a world without bees
The miraculous life of butterflies
Introduction and neuroscience: our amazing brain
Do orcas have feelings? Or are the animals very different from us?

Day Five:

Micro Biology: Fungi are around us
Bacteria and their amazing lives
Vegetable and Animals Cells: are we different?
What is DNA or can we design animals?