




SUMMER LIVE VIDEO CAMPS 2020

- **LIVE ONLINE ZOOM VIDEO CLASSES** 
- **Book daily morning and afternoon sessions online**
- **All online video classes are age-adjusted for 4-7 and 8-12 year old children**
- **Our live online video classes are project-based, interactive and fun**
- **All our teachers are Scientists & Science Communicators and are highly experienced working with young children**

6-10 July - Big Bang to AI

Mon, 6 July	10.00-11.00	4-7 years	Lost in space: Explore the universe, galaxies&black holes. What was the Big Bang?
Mon, 6 July	11.30-12.30	8-12 years	Lost in space: Explore the universe, galaxies&black holes. What was the Big Bang?
Mon, 6 July	2.00-3.00	4-7 years	Scientist Fritz Zwicky and the life cycles of stars
Mon, 6 July	3.30-4.30	8-12 years	Scientist Fritz Zwicky and the life cycles of stars
Tue, 7 July	10.00-11.00	4-7 years	How the Earth was formed and rocks and how they change
Tue, 7 July	11.30-12.30	8-12 years	How the Earth was formed and rocks and how they change
Tue, 7 July	2.00-3.00	4-7 years	Microorganisms or how it all started on Earth. Wonderful cells
Tue, 7 July	3.30-4.30	8-12 years	Microorganisms or how it all started on Earth. Wonderful cells
Wed, 8 July	10.00-11.00	4-7 years	Looking for fossils and Dinosaur Hunters. Mary Anning's excavations
Wed, 8 July	11.30-12.30	8-12 years	Looking for fossils and Dinosaur Hunters. Mary Anning's excavations
Wed, 8 July	2.00-3.00	4-7 years	Homo sapiens: Our evolutionary path. How we came up with simple machines
Wed, 8 July	3.30-4.30	8-12 years	Homo sapiens: Our evolutionary path. How we came up with simple machines
Thu, 9 July	10.00-11.00	4-7 years	The scientific discoveries of ancient Egyptians and the first great Navigators
Thu, 9 July	11.30-12.30	8-12 years	The scientific discoveries of ancient Egyptians and the first great Navigators
Thu, 9 July	2.00-3.00	4-7 years	Leonardo da Vinci and his inventions. How electricity changed the world
Thu, 9 July	3.30-4.30	8-12 years	Leonardo da Vinci and his inventions. How electricity changed the world
Fri, 10 Jul	10.00-11.00	4-7 years	Reaching the stars: rockets and space missions. Space probes: Rosetta&Voyagers
Fri, 10 Jul	11.30-12.30	8-12 years	Reaching the stars: rockets and space missions. Space probes: Rosetta&Voyagers
Fri, 10 Jul	2.00-3.00	4-7 years	What is Artificial Intelligence?
Fri, 10 Jul	3.30-4.30	8-12 years	What is Artificial Intelligence?



13-17 July - Faster, Higher, Deeper, Further

Mon, 13 Jul	10.00-11.00	4-7 years	Simple Machines: Wheel and Axle. Steam engines and motors
Mon, 13 Jul	11.30-12.30	8-12 years	Simple Machines: Wheel and Axle. Steam engines and motors
Mon, 13 Jul	2.00-3.00	4-7 years	The evolution of cars and driving faster than the speed of sound (supersonic cars)
Mon, 13 Jul	3.30-4.30	8-12 years	The evolution of cars and driving faster than the speed of sound (supersonic cars)
Tue, 14 Jul	10.00-11.00	4-7 years	Brothers Montgolfier and first hot air balloons. Flying animals: insects, birds, bats
Tue, 14 Jul	11.30-12.30	8-12 years	Brothers Montgolfier and first hot air balloons. Flying animals: insects, birds, bats
Tue, 14 Jul	2.00-3.00	4-7 years	From Leonardo Da Vinci to the Wright Brothers. Roaring into the Jet Age
Tue, 14 Jul	3.30-4.30	8-12 years	From Leonardo Da Vinci to the Wright Brothers. Roaring into the Jet Age
Wed, 15 Jul	10.00-11.00	4-7 years	Konstantin Tsiolkovsky and the first rockets. Defeating gravity: Blast off
Wed, 15 Jul	11.30-12.30	8-12 years	Konstantin Tsiolkovsky and the first rockets. Defeating gravity: Blast off
Wed, 15 Jul	2.00-3.00	4-7 years	Engineering Design Challenges in building Rockets. How to become an astronaut
Wed, 15 Jul	3.30-4.30	8-12 years	Engineering Design Challenges in building Rockets. How to become an astronaut
Thu, 16 Jul	10.00-11.00	4-7 years	The science behind sink versus float (buoyancy). History of navigation
Thu, 16 Jul	11.30-12.30	8-12 years	The science behind sink versus float (buoyancy). History of navigation
Thu, 16 Jul	2.00-3.00	4-7 years	Deep sea diving in submarine. Echolocation or how submarines 'see' underwater
Thu, 16 Jul	3.30-4.30	8-12 years	Deep sea diving in submarine. Echolocation or how submarines 'see' underwater
Fri, 17 Jul	10.00-11.00	4-7 years	Faster, further into the future! Who wants to be an engineer?
Fri, 17 Jul	11.30-12.30	8-12 years	Faster, further into the future! Who wants to be an engineer?
Fri, 17 Jul	2.00-3.00	4-7 years	Space missions, time travel and wormholes
Fri, 17 Jul	3.30-4.30	8-12 years	Space missions, time travel and wormholes

20-24 July - Newtonian Physics

Mon, 20 Jul	10.00-11.00	4-7 years	What are Forces? Isaac Newton and the Newtonian Laws. What is Energy?
Mon, 20 Jul	11.30-12.30	8-12 years	What are Forces? Isaac Newton and the Newtonian Laws. What is Energy?
Mon, 20 Jul	2.00-3.00	4-7 years	States of Matter. Newtonian vs. non-Newtonian liquids
Mon, 20 Jul	3.30-4.30	8-12 years	States of Matter. Newtonian vs. non-Newtonian liquids
Tue, 21 Jul	10.00-11.00	4-7 years	What is gravity? Galileo Galilei's experiments
Tue, 21 Jul	11.30-12.30	8-12 years	What is gravity? Galileo Galilei's experiments
Tue, 21 Jul	2.00-3.00	4-7 years	Leonardo da Vinci and the science of Flight. Rocket Science&how far can we go
Tue, 21 Jul	3.30-4.30	8-12 years	Leonardo da Vinci and the science of Flight. Rocket Science&how far can we go
Wed, 22 Jul	10.00-11.00	4-7 years	Electromagnetism and Light. Electricity and Circuits
Wed, 22 Jul	11.30-12.30	8-12 years	Electromagnetism and Light. Electricity and Circuits
Wed, 22 Jul	2.00-3.00	4-7 years	The weak and strong forces and what is radioactivity?



Wed, 22 Jul	3.30-4.30	8-12 years	The weak and strong forces and what is radioactivity?
Thu, 23 Jul	10.00-11.00	4-7 years	The physics of sound. What are waves?
Thu, 23 Jul	11.30-12.30	8-12 years	The physics of sound. What are waves?
Thu, 23 Jul	2.00-3.00	4-7 years	Beyond Newton: Introduction in Particle Physics
Thu, 23 Jul	3.30-4.30	8-12 years	Beyond Newton: Introduction in Particle Physics
Fri, 24 Jul	10.00-11.00	4-7 years	Classical physics vs. quantum mechanics
Fri, 24 Jul	11.30-12.30	8-12 years	Classical physics vs. quantum mechanics
Fri, 24 Jul	2.00-3.00	4-7 years	Einstein, Stephen Hawking and the mystery of Black Holes
Fri, 24 Jul	3.30-4.30	8-12 years	Einstein, Stephen Hawking and the mystery of Black Holes

27-31 July - Medical Science - 'Who wants to be a Doctor?'

Mon, 27 Jul	10.00-11.00	4-7 years	What's inside us? Anatomy and the Systems in the human body
Mon, 27 Jul	11.30-12.30	8-12 years	What's inside us? Anatomy and the Systems in the human body
Mon, 27 Jul	2.00-3.00	4-7 years	Skeletons and muscles
Mon, 27 Jul	3.30-4.30	8-12 years	Skeletons and muscles
Tue, 28 Jul	10.00-11.00	4-7 years	How doctors can see inside us; from optical fibres to MRI and X-Ray machines
Tue, 28 Jul	11.30-12.30	8-12 years	How doctors can see inside us; from optical fibres to MRI and X-Ray machines
Tue, 28 Jul	2.00-3.00	4-7 years	Neurosurgeons! The brain and the central nervous system
Tue, 28 Jul	3.30-4.30	8-12 years	Neurosurgeons! The brain and the central nervous system
Wed, 29 Jul	10.00-11.00	4-7 years	The importance of our digestive system and how it works
Wed, 29 Jul	11.30-12.30	8-12 years	The importance of our digestive system and how it works
Wed, 29 Jul	2.00-3.00	4-7 years	What is nutrition and how does it affect our health?
Wed, 29 Jul	3.30-4.30	8-12 years	What is nutrition and how does it affect our health?
Thu, 30 Jul	10.00-11.00	4-7 years	What are pathogens and what is our immune system?
Thu, 30 Jul	11.30-12.30	8-12 years	What are pathogens and what is our immune system?
Thu, 30 Jul	2.00-3.00	4-7 years	John Snow and the discovery of 'Germ Theory'.
Thu, 30 Jul	3.30-4.30	8-12 years	John Snow and the discovery of 'Germ Theory'.
Fri, 31 Jul	10.00-11.00	4-7 years	How modern medicine keeps us safe – from vaccines to antibiotics
Fri, 31 Jul	11.30-12.30	8-12 years	How modern medicine keeps us safe – from vaccines to antibiotics
Fri, 31 Jul	2.00-3.00	4-7 years	Can doctors eliminate human disease?
Fri, 31 Jul	3.30-4.30	8-12 years	Can doctors eliminate human disease?



3-7 Aug - Astrogeology

Mon, 3 Aug	10.00-11.00	4-7 years	What is beneath our feet? James Hutton and the science of geology
Mon, 3 Aug	11.30-12.30	8-12 years	What is beneath our feet? James Hutton and the science of geology
Mon, 3 Aug	2.00-3.00	4-7 years	How do scientists know what is inside the Earth? Inge Lehman: geologist
Mon, 3 Aug	3.30-4.30	8-12 years	How do scientists know what is inside the Earth? Inge Lehman: geologist
Tue, 4 Aug	10.00-11.00	4-7 years	The rock cycle and an exploration of crystals
Tue, 4 Aug	11.30-12.30	8-12 years	The rock cycle and an exploration of crystals
Tue, 4 Aug	2.00-3.00	4-7 years	The science behind earthquakes: plate tectonics and the Richter scale
Tue, 4 Aug	3.30-4.30	8-12 years	The science behind earthquakes: plate tectonics and the Richter scale
Wed, 5 Aug	10.00-11.00	4-7 years	What is astrogeology? Our closest celestial neighbour, the Moon
Wed, 5 Aug	11.30-12.30	8-12 years	What is astrogeology? Our closest celestial neighbour, the Moon
Wed, 5 Aug	2.00-3.00	4-7 years	Our Solar family of rocky planets: Mercury, Venus, and Mars
Wed, 5 Aug	3.30-4.30	8-12 years	Our Solar family of rocky planets: Mercury, Venus, and Mars
Thu, 6 Aug	10.00-11.00	4-7 years	Moons, Comets, Meteorites and how to build a solar system
Thu, 6 Aug	11.30-12.30	8-12 years	Moons, Comets, Meteorites and how to build a solar system
Thu, 6 Aug	2.00-3.00	4-7 years	The hidden world beneath the Antarctic Ice Sheet. Exoplanets
Thu, 6 Aug	3.30-4.30	8-12 years	The hidden world beneath the Antarctic Ice Sheet. Exoplanets
Fri, 7 Aug	10.00-11.00	4-7 years	How planets and moons change: extreme weather on other planets
Fri, 7 Aug	11.30-12.30	8-12 years	How planets and moons change: extreme weather on other planets
Fri, 7 Aug	2.00-3.00	4-7 years	What is the shape of the ocean floor? Rachel Carson&what she did for our planet
Fri, 7 Aug	3.30-4.30	8-12 years	What is the shape of the ocean floor? Rachel Carson&what she did for our planet

10-14 Aug - Scientific Discoveries through history

Mon, 10 Aug	10.00-11.00	4-7 years	Franklin, Crick and Watson and the secret of DNA
Mon, 10 Aug	11.30-12.30	8-12 years	Franklin, Crick and Watson and the secret of DNA
Mon, 10 Aug	2.00-3.00	4-7 years	Amazing physicists: from Isaac Newton to Stephen Hawking/black holes
Mon, 10 Aug	3.30-4.30	8-12 years	Amazing physicists: from Isaac Newton to Stephen Hawking/black holes
Tue, 11 Aug	10.00-11.00	4-7 years	Nicola Tesla and the giant thunder collector. Katherine Johnson&rocket science
Tue, 11 Aug	11.30-12.30	8-12 years	Nicola Tesla and the giant thunder collector. Katherine Johnson&rocket science
Tue, 11 Aug	2.00-3.00	4-7 years	Mary Anning's amazing fossils
Tue, 11 Aug	3.30-4.30	8-12 years	Mary Anning's amazing fossils
Wed, 12 Aug	10.00-11.00	4-7 years	Robert Hooke and miraculous microorganisms
Wed, 12 Aug	11.30-12.30	8-12 years	Robert Hooke and miraculous microorganisms
Wed, 12 Aug	2.00-3.00	4-7 years	How Edward Jenner, Alexander Fleming and Louis Pasteur saved the world



Wed, 12 Aug	3.30-4.30	8-12 years	How Edward Jenner, Alexander Fleming and Louis Pasteur saved the world
Thu, 13 Aug	10.00-11.00	4-7 years	Charles Darwin and the survival of the fittest
Thu, 13 Aug	11.30-12.30	8-12 years	Charles Darwin and the survival of the fittest
Thu, 13 Aug	2.00-3.00	4-7 years	Rachel Carson and how to take care of our planet
Thu, 13 Aug	3.30-4.30	8-12 years	Rachel Carson and how to take care of our planet
Fri, 14 Aug	10.00-11.00	4-7 years	Kingdom Brunel and his big engineering dreams
Fri, 14 Aug	11.30-12.30	8-12 years	Kingdom Brunel and his big engineering dreams
Fri, 14 Aug	2.00-3.00	4-7 years	Galileo Galilei, Nicolaus Copernicus, and the search for truth
Fri, 14 Aug	3.30-4.30	8-12 years	Galileo Galilei, Nicolaus Copernicus, and the search for truth

17-21 Aug - Atoms, Molecules, Bacteria/microorganisms

Mon, 17 Aug	10.00-11.00	4-7 years	The origins of matter. What are atoms made from?
Mon, 17 Aug	11.30-12.30	8-12 years	The origins of matter. What are atoms made from?
Mon, 17 Aug	2.00-3.00	4-7 years	The elements and the periodic table with Dmitri Mendeleev
Mon, 17 Aug	3.30-4.30	8-12 years	The elements and the periodic table with Dmitri Mendeleev
Tue, 18 Aug	10.00-11.00	4-7 years	How stars form and how they change matter. What are supernovae?
Tue, 18 Aug	11.30-12.30	8-12 years	How stars form and how they change matter. What are supernovae?
Tue, 18 Aug	2.00-3.00	4-7 years	What is a molecule? Polymers and chemical reactions
Tue, 18 Aug	3.30-4.30	8-12 years	What is a molecule? Polymers and chemical reactions
Wed, 19 Aug	10.00-11.00	4-7 years	Acids and bases – the power of hydrogen
Wed, 19 Aug	11.30-12.30	8-12 years	Acids and bases – the power of hydrogen
Wed, 19 Aug	2.00-3.00	4-7 years	Adventures with carbon
Wed, 19 Aug	3.30-4.30	8-12 years	Adventures with carbon
Thu, 20 Aug	10.00-11.00	4-7 years	The magic of water
Thu, 20 Aug	11.30-12.30	8-12 years	The magic of water
Thu, 20 Aug	2.00-3.00	4-7 years	Abiogenesis – or how life began
Thu, 20 Aug	3.30-4.30	8-12 years	Abiogenesis – or how life began
Fri, 21 Aug	10.00-11.00	4-7 years	Cell biology and single-celled organisms
Fri, 21 Aug	11.30-12.30	8-12 years	Cell biology and single-celled organisms
Fri, 21 Aug	2.00-3.00	4-7 years	Bacteria, archaea, fungi, and extremophiles
Fri, 21 Aug	3.30-4.30	8-12 years	Bacteria, archaea, fungi, and extremophiles



24-28 Aug - Marine Biology

Mon, 24 Aug	10.00-11.00	4-7 years	Who wants to be a marine biologist? Intro to the oceans and the oceanic zones
Mon, 24 Aug	11.30-12.30	8-12 years	Who wants to be a marine biologist? Intro to the oceans and the oceanic zones
Mon, 24 Aug	2.00-3.00	4-7 years	Why is the sea salty and the origins of life in the oceans
Mon, 24 Aug	3.30-4.30	8-12 years	Why is the sea salty and the origins of life in the oceans
Tue, 25 Aug	10.00-11.00	4-7 years	The deep sea and bioluminescence
Tue, 25 Aug	11.30-12.30	8-12 years	The deep sea and bioluminescence
Tue, 25 Aug	2.00-3.00	4-7 years	Mysterious octopuses
Tue, 25 Aug	3.30-4.30	8-12 years	Mysterious octopuses
Wed, 26 Aug	10.00-11.00	4-7 years	Frozen oceans and life over and under the ice
Wed, 26 Aug	11.30-12.30	8-12 years	Frozen oceans and life over and under the ice
Wed, 26 Aug	2.00-3.00	4-7 years	The cetaceans: whales and dolphins
Wed, 26 Aug	3.30-4.30	8-12 years	The cetaceans: whales and dolphins
Thu, 27 Aug	10.00-11.00	4-7 years	The amazing coasts: The Ocean's end
Thu, 27 Aug	11.30-12.30	8-12 years	The amazing coasts: The Ocean's end
Thu, 27 Aug	2.00-3.00	4-7 years	Coastal ecosystems – marine iguanas, sea turtles and the importance of algae
Thu, 27 Aug	3.30-4.30	8-12 years	Coastal ecosystems – marine iguanas, sea turtles and the importance of algae
Fri, 28 Aug	10.00-11.00	4-7 years	Staying afloat! Buoyancy in nature
Fri, 28 Aug	11.30-12.30	8-12 years	Staying afloat! Buoyancy in nature
Fri, 28 Aug	2.00-3.00	4-7 years	Ocean conservation
Fri, 28 Aug	3.30-4.30	8-12 years	Ocean conservation

1-3 Sep – Chemistry

Tue, 1 Sep	10.00-11.00	4-7 years	The science of chemistry and amazing chemicals
Tue, 1 Sep	11.30-12.30	8-12 years	The science of chemistry and amazing chemicals
Tue, 1 Sep	2.00-3.00	4-7 years	The discovery of elements and the periodic table
Tue, 1 Sep	3.30-4.30	8-12 years	The discovery of elements and the periodic table
Wed, 2 Sep	10.00-11.00	4-7 years	The states of matter from the coldest condensates to the hottest plasmas
Wed, 2 Sep	11.30-12.30	8-12 years	The states of matter from the coldest condensates to the hottest plasmas
Wed, 2 Sep	2.00-3.00	4-7 years	The properties of matter and the strangest chemicals
Wed, 2 Sep	3.30-4.30	8-12 years	The properties of matter and the strangest chemicals
Thu, 3 Sep	10.00-11.00	4-7 years	Amazing Carbon and wonderful Water
Thu, 3 Sep	11.30-12.30	8-12 years	Amazing Carbon and wonderful Water
Thu, 3 Sep	2.00-3.00	4-7 years	The life of Marie Curie and her incredible discoveries
Thu, 3 Sep	3.30-4.30	8-12 years	The life of Marie Curie and her incredible discoveries

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