

*Teachers have the freedom to choose which scientist(s) they study for each topic from the overview below. Teachers are not limited to one choice per topic.

EYFS

Timothy (Tim) Peake- a British astronaut who became famous when he spent six months living and working on the International Space Station (ISS) in 2015/16. He was the first British astronaut to board the ISS, a laboratory 400 kilometres from Earth.

Mae Jemison- the first African American woman to become an astronaut. She was a part of the crew of the space shuttle Endeavour, which orbited Earth for more than a week in 1992.

Stephen Backshall MBE-an English naturalist, wildlife presenter, writer and adventurer.

Year I				
Animals, including humans	Everyday materials	Plants	Seasonal	
			Changes	
 Linda Buck-American 	Ole Kirk Christiansen-	Sir Joseph Banks- a		
Biologist who discovered	invented Lego.	particular type of scientist	John Dalton- a British	
the odorant receptors in		known as a 'botanist,' one	weather pioneer. Much of	
their noses. This means		who studies plants. He was	what Dalton did with his	
they can smell over		also an explorer and	meteorological instruments	
10,000 different smells.		travelled with Captain	helped to turn the	
She won the Nobel Prize in		Cook. He also advised	forecasting of weather into	
2004		George III when setting	actual science.	
		up the Royal Gardens at		
		Kew		



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 Carl Hagenbeck- invented the first zoo with open animal enclosures. 				
		Year2		
Animals, including humans	Liwing things and their habitats	Plants	Living things and their habitats- Minibeasts	Use of Everyday Materials
Elizabeth Garrett Anderson		Jane Colden-famous for		
-Britain's first female doctor.	Rachel Carson- discovered the dangers of chemical pollution in the ocean (linked to ocean habitats).	her manuscript without a title, in which she describes the flora of the New York area, and draws ink drawings of 340 different species of them.	Chris Packham- an English naturalist, nature photographer, television presenter and author, best known for his television work including. Autumnwatch, Springwatch and the CBBC children's nature series The Really Wild Show.	Leo Hendrik Baekeland- invented Bakelite, the first fully synthetic plastic, meaning it contained no molecules found in nature.



		Year 3
Rocks	Forces and Magnets	Animals, including

- Mary Anning-remembered as being one of the greatest fossil hunters to ever live.
- Robert H. Bakker American paleontologist and writer, who developed modern ideas about dinosaurs.
- William Smith- an English geologist, who created the first nationwide geological map.

- Isaac Newton-discovered gravity when an apple fell from a tree and (as legend has it) hit him on the head.
- Michael Faraday -a
 Victorian chemist and
 physicist who invented the
 electric motor. His most
 important work was his
 invention of the electric
 motor in 1821. He also
 worked on magnetism, and
 later discovered how to
 make electromagnets,
 which are used in electric
 generators.

Animals, including humans food and skeleton

Marie Curier a Polish scientist whose ground breaking research on radioactivity won her two Nobel Prizes, and led to a revolutionary new treatment for cancer. During the First World War, Marie also developed mobile X-ray units that she drove to field hospitals, to find the fractures, bullets and shrapnel in soldiers' wounds. The trucks were known as 'petites Curies' (little Curies).

Light

- Archimedes- Known for having interest in the reflection of light in mirrors, and how it could change based on the curves of the mirror.
- Abu Ali al-Hasan
 (Alhazen)- was a physicist and mathematician, with a specialism in optics and light

Helping Plants to Grow Well

- Jeanne Baret- the first woman to sail around the world and introduced around 70 plants to Europe.
- Tom Hart Dyke- a modern horticulturalists who was kidnapped in South America while collecting a rare orchid.
- David Douglass- was a botanist who gave his name to the Douglas Fir.



Animals, Including Humans digestion/teeth and food chains

Charles Elton - Studied
 animal ecology (ecology is
 the branch of biology that
 deals with the relations of
 organisms to one another
 and to their physical
 surroundings).

Electricity

- Nikola Teslar best known for his work with electricity, including the design of alternating current (AC) electricity.
- Thomas Edison-invented the light bulb.
- Lewis Howard Latimeran inventor and draftsman best known for his contributions to the patenting of the light bulb and the telephone.
- Benjamin Franklin-Showed that lightning is caused by electricity

States of matter including solids, liquids and gases and the Water Cycle

Year 4

- Alfred Barnhard Nobel-Nobel was a Swedish inventor, chemist and weapons developer. He is best known for the invention of dynamite.
- Norbert Rillieux- was an American-French inventor who was widely considered one of the earliest chemical engineers and noted for his pioneering invention of the multiple-effect evaporator. This invention was an important development in the growth of the sugar industry.

All living things -Habitats/classification

Jacques Cousteaur a

French naval officer,
explorer, ecologist,
filmmaker, scientist,
photographer and
researcher who studied the
sea and all forms of life in
water. He co-developed the
aqua-lung, pioneered
marine conservation and
was a member of the
Académie française.

Sound

- Alexander Graham Bell
 Inventor of the first
 practical telephone
- Thomas Edison Inventor of the phonograph (a device for the mechanical recording and reproduction of sound).
- Emile Berliner Inventor of the disc record gramophone
- Guglielmo Marconi
 Inventor of the first
 wireless telegraph
- Robert Boyle Described how molecules move
- Ernst Mach Described how shock waves are formed



Joseph Priestley-made a	
key discovery when he	Heinrich Hertz The unit of
isolated oxygen, a gas he	frequency used for all kinds
called dephlogisticated air,	of waves and vibrations is
in keeping with the theory	named after him
of that time that a	U
mysterious substance	
called phlogiston was in all	
substances.	
Albert Einstein- discovered	
new ways to work out the	
size of molecules and	
explained how particles	
move.	
Thorse.	
Lord Kelvin- best known	
for discovering that -270	
degrees celcius is the	
lowest possible temperature	
in the universe. It is the	
temperature at which	
everything, including the	
tiniest of particles, freezes.	



Properties of everyday materials -changing state -Reversible / Irreversible changes

Stephanie Kwolek- a chemist who invented Kevlar when working on a project to find a strong but lightweight material to help reinforce car tyres. This was to try and help improve cars' efficiency in terms of the number of miles to the gallon. The Kevlar plastic that Stephanie Kwolek developed turned out to be perfect for tyres but also for a variety of other uses, including for bulletproof vests and other safety equipment such as firefighters' boots and cutproof gloves for chefs.

Earth and Space

- Nicolaus Copernicus- an early astronomer, scientist and priest in Poland, thought the sun was at the centre of the solar system.
- Katie Bouman, recently celebrated for playing a major role in capturing the first ever image of a black hole
- William and Caroline
 Herschel- the Herschels
 were pioneers of the
 systematic classification
 and investigation of the
 heavens. William Herschel
 was one of the first
 'professional' astronomers,
 and discovered infrared
 radiation. His sister
 Caroline helped him to

All Living things -Life cycle of plants and animals

Year 5

- Jane Goodall- a British primatologist and anthropologist. Considered to be the world's foremost expert on chimpanzees, Goodall is best known for her over 55-year study of social and family interactions of wild chimpanzees since she first went to Gombe Stream National Park, Tanzania in 1960.
- George Washington
 Carver- an African American agricultural
 scientist and inventor. He
 actively promoted
 alternative crops to cotton
 and methods to prevent

Forces

Galileo Galilei- worked on a variety of experiments, including the speed at which different objects fall, mechanics and pendulums.

Animals, including humans changes from birth to old age.

- Sir David Attenborough-British naturalist and television personality, world-famous for writing, presenting and producing award-winning wildlife documentaries.
- Ernest Everett Just- a biologist and educator who pioneered many areas on the physiology of development, including fertilization, experimental parthenogenesis, hydration, cell division, dehydration in living cells and ultraviolet carcinogenic radiation effects on cells.



Kevlar is a synthetic plastic
material that is five times
stronger than the same
weight of steel. The
molecules in the plastic
form very strong bonds
and arrange themselves in
a tight structure. The
strong but light plastic is
spun into long fibres which
are then woven together to
make an even stronger
finished product.

- develop the modern mathematical approach to astronomy.
- Jonannes Kepler- the first person who explained the motion of the planets of our solar system completely. His first law of planetary motion states that planets travel in ellipses. Like Nicolaus Copernicus, Kepler also believed in heliocentric solar system. Johannes Kepler also explained how the moon influenced tides.
- Dr. Stephen Hawkingstudied the laws of physics that make up the universe. He wanted to understand how the universe was formed, how it works, and explain its creation and evolution.

soil depletion. While a professor at Tuskegee Institute, Carver developed techniques to improve soils depleted by repeated plantings of cotton.



• Zang Heng- a Chinese
astronomer and inventor.
He was the chief
astronomer in the court of
the Chinese Emperor and
mapped the stars and
planets. He correctly
recognized that the moon
was not a light source, but
reflected the light of the
Sun, a controversial
suggestion at the times.
Katherine Johnson- in her
career, she was called a
"computer." She helped
NASA put an astronaut
into orbit around Earth.
And then she helped put a
man on the Moon.
Neil deGrasse Tyson- an
American astrophysicist,
cosmologist, planetary
courte and and have some a



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	scientist, author, and			
	science communicator.			
		Year 6		
All living things-	Electricity	Animal including Humans -	SATs Revision	Evolution and inheritance.
classification including		circulation, heart, blood		Living things change and
micro-organisms	Charles Augustin-Coulomb	vessels and impact of diet,	Light	reproduce. Adaptation
	Invented instruments to	exercise and drugs.		
Carl Linnaeus-helped to	measure forces between		Albert Einstein-His theory	Charles Robert Darwin- the
develop crucial theories on	charges.	Dr Daniel Hale Williams-	of the photoelectric effect	biggest name in Victorian
biodiversity and the		performed the first open-	won him a Nobel Prize.	science. Darwin was an
classification of plants and	Otis Frank Boykin- an	heart surgery.	The photoelectric effect	English naturalist who is
animals. This system,	American inventor and		(light matter interaction) is	famous for his work on the
called the 'binomial system',	engineer. His inventions	Charles Drew- a doctor	the emission of electrons or	theory of evolution.
where the genus of a	include improved electrical	and scientist in the early	other free carriers when	
species is named and	resistors used in computing,	1900s. His work on blood	electromagnetic radiation,	
followed by a specific	missile guidance, and	storage and blood banks	like light, hits a material.	Alfred Wallace- in 1848
species type, is still used by	pacemakers.	helped to save thousands	Electrons emitted in this	Wallace was collecting
people today.		of lives during World War	manner can be called	butterflies, insects and birds
	Alessandro Volta-	II.	photoelectrons.	in Brazil, when he noticed
Edward Jenner-discovered	Invented the first battery			variations in species
how to vaccinate people			James Clerk Maxwell-	depending on their living
against smallpox.	Andre Marie Ampere-		most famous for his theory	conditions.
	Measured the amount of		of electromagnetism, which	
Dr Joseph Lister- the	current flowing in a circuit.		showed that light was	Gregor Mendel- considered
pioneer of anticeptic			electromagnetic radiation.	the father of the science of
surgery.			His theory is considered to	genetics. Through



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	have paved the way for	experimentation he found	
Louis Pasteur - Discovered	both quantum mechanics	that certain traits were	
pasteurization, vaccines,	and Einstein's theory of	inherited following specific	
and founded the science of	special relativity.	patterns. Gregor studied	
germ theory.		inheritance by	
		experimenting with peas in	
Sir Alexander Fleming-		his garden.	
discovered penicillin in			
1928, which kills some		Francis Crick and James	
bacteria responsible for		Watson - Discovered the	
serious human infections.		structure of the DNA	
		molecule.	
Robert Hooke- famously			
discovered the Law of			
Elasticity (or Hooke's Law)			
and did a huge amount of			
work on microbiology (he			
published a famous book			
called Micrographia, which			
included sketches of			
various natural things			
under a microscope).			



Useful websites:

https://www.bbc.co.uk/teach/class-clips-video/science-ks2-scientists-and-scientific-method/z43mbdm

https://www.bbc.co.uk/teach/class-clips-video/pshe-ksl-ks2-proud-to-be-a-doctor/z7kfbdm. -Elizabeth Garrett Anderson and Alexander Flemming.

https://www.dkfindout.com/uk/science/famous-scientists/

https://www.bbc.co.uk/teach/class-clips-video/science-ks2-the-work-of-sir-isaac-newton/zkw3gp3 Isaac Newton

http://www.coreknowledge.org.uk/year/sciencebiographyactivity.php Joseph Banks YI

https://www.youtube.com/watch?v=aowghaUvP6Q Marie Curie video

https://www.twinkl.co.uk/search Twinkle scientist packs (YI-Y6 Lots to choose from).