

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
1	<b>Everyday Materials</b>	<b>Everyday materials</b>	<b>Seasonal changes</b>	<b>Animals including humans</b>	<b>Seasonal changes.</b>	<b>Plants</b>
	Charles Macintosh	Martin Brock  XelfleX inventor, nanotechnology engineer Martin Brock works with a team to develop smart fabrics, which use bend sensitive fibre-optics that are stitched inside the clothing to provide intelligent feedback for athletes without being too bulky	John Dalton (1766 – 1844) – Famous for the amount of time he kept a weather diary for.	Amy Vedder (1951 -) Wildlife biologist and conservationist <a href="http://iwaswondering.org/amy_homepage.html">http://iwaswondering.org/amy_homepage.html</a>	Gabriel Fahrenheit	Anna Atkins 1799-1871  Botanist and photographer
2	<b>Animals including humans</b>	<b>Living things and their habitat</b>	<b>Uses of everyday materials</b>		<b>Plants</b>	
	Elizabeth Garrett Anderson- First British female doctor.	Steve Backshall  (1973 - naturalist and presenter on BBC of wildlife programs	Julie Brusaw  Solar Roadways inventor, material engineer Not only do they have all of the properties of ordinary roads, but solar roadways have been designed in an attempt to use the Sun's energy	Joe Zekoski  Goodyear engineer, mechanical engineer Developer of the BH03 tyre, which is fitted with materials that change heat into energy to charge an electric car without the need for a charging station. When parked, sunlight heats the tyre and this heat is	Sir Joseph Banks  (Lincolnshire Botanist /explorer. Travelled with James Cook on the HMS Endeavour and brought back plants, which he planted in Kew Gardens.)	Margaret Rebecca Dickinson  Victorian Botanist and Plant Illustrator.

			to provide power for highways.	transformed into electricity using the thermo-electric material		
<b>3</b>	<b>Rocks</b>	<b>Forces and magnets</b>	<b>Animals including humans</b>		<b>Plants</b>	<b>Light</b>
	Katia Krafft: geologist and volcanologist. Researched volcanic eruptions and reducing their risks.	Andre Marie Ampere  Founder of electro-magnetism Hans	Marie Curie  Radiation / X-rays Created x-ray machines for ambulances. Lead to radiation being used to treat diseases such as cancer. Inspired other scientists	Diane France (1954 - )  Diane France solves mysteries and crimes by deciphering the stories bones tell her.	George Washington Carver 1860 – 1943  (born into slavery – botanist/ inventor. Discovered over 300 uses for peanuts)	Thomas Edison 1847 -1931  (Inventor and businessman – incandescent light bulb) “I have not failed. I have found 10,000 ways that do not work”
<b>4</b>	<b>Animals including humans</b>	<b>Living things and their habitats.</b>	<b>States of matter.</b>		<b>Electricity.</b>	<b>Sound.</b>
	Jane Goodall – chimpanzees as omnivores.	Sylvia Earle  marine biologist, explorer and aquanaut. Explores the oceans and works to save them from pollution.	Caleb Bradham  Pharmacist who invented Pepsi Cola	Joseph Priestly  Gases	Benjamin Franklin (1706-90)  Showed that lightning is caused by electricity.	Alexander Graham Bell  Invented the telephone
<b>5</b>	<b>Living things and their habitats.</b>	<b>Forces</b>	<b>Properties and changes of materials</b>		<b>Earth and Space</b>	<b>Animals including humans.</b>

	<p><u>Contemporary Scientist</u> Sarah Fowler OBE – Marine biologist. Sarah’s research identified the global threat to sharks and shares strategies of how we can protect them. Living things and their habitats</p>	<p>Isaac Newton (Lincolnshire) 1642–1727 (gravity) on his scientific method and how he made one of his biggest discoveries – gravity Formulated the laws of motion.</p>	<p>Jamie Garcia Invention of a new plastic</p>	<p>Sir Humphrey Davy -lamp to Separating gases</p>	<p>Katherine Johnson: physicist and mathematician. Worked at NASA and led on the calculations that led to the first manned mission</p> <p>Professor Brian Cox (1968 -) Contemporary physicist, presents many BBC programmes)</p>	<p>Professor Robert Winston (1940 - ) contemporary scientist</p>
6	<p><b>Animals including humans.</b></p>	<p><b>Living things and their habitats.</b></p>	<p><b>Evolution and inheritance.</b></p>		<p><b>Electricity.</b></p>	<p><b>Light.</b></p>
	<p>William Harvey (1578 – 1657) Discovered the circulatory system.</p>	<p>Carl Linneus (1707- 1778) Classification Victorian botanist, physician and zoologist. Came up with the system for naming and classifying living organisms that we use today (also known as taxonomy</p>	<p>Charles Darwin 1809 – 1882 Charles Darwin on the theory of evolution and process of natural selection</p>	<p>Contemporary Scientist Professor Nazneen Rahman Human geneticist Her research involves identifying genes and genetic factors that increase the risk of cancer developing and she has used this research to develop clinical improvements in patient care.</p>	<p>Peter Rawlinson Engineer Working on the development of electric vehicles, providing clear vision for a highly differentiated, next generation product.</p>	<p>Ernesta Jonkute Nanotechnologist Developed antablack®, a super-black coating that holds the world record as the darkest humanmade substance. It is used in applications ranging from space-borne scientific instrumentation to luxury goods.</p>

Blue – British

Red – Female

Green – Non British.

Purple – contemporary female

Orange - contemporary male

Useful links –

Gabriel Fahrenheit - [The History of the Thermometer \(thoughtco.com\)](http://www.thoughtco.com/the-history-of-the-thermometer-1131116.html)

Charles McIntosh - <https://bps.bp.com/super-scientists-charles-macintosh-primary>

William Harvey [http://www.bbc.co.uk/history/historic\\_figures/harvey\\_william.shtml](http://www.bbc.co.uk/history/historic_figures/harvey_william.shtml)

Diane France - [http://iwaswondering.org/diane\\_homepage.html](http://iwaswondering.org/diane_homepage.html)

Jamie Garcia - <http://bps.bp.com/primaryresources/science/ages-9-to11/properties-and-changes-ofmaterials/super-scientists-jamiegarcia/>

Carl Linneus [https://www.bbc.co.uk/programmes/articles/2bnTHtTcylFdKk7BtCtjbhf/scitube-scientists-and-scientific-method?dm\\_i=3YNL,BHOK,2VWQKN,16RVJ,1](https://www.bbc.co.uk/programmes/articles/2bnTHtTcylFdKk7BtCtjbhf/scitube-scientists-and-scientific-method?dm_i=3YNL,BHOK,2VWQKN,16RVJ,1)

Charles Darwin <https://ca1-tls.edcdn.com/documents/CharlesDarwin.pdf?mtime=20160212053440> <http://www.nhm.ac.uk/natureonline/science-of-naturalhistory/biographies/charlesdarwin/index.html> <http://bps.bp.com/primaryresources/science/ages-9-to11/evolution-and-inheritance/superscientists-charles-darwin/>