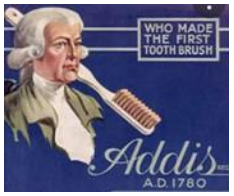
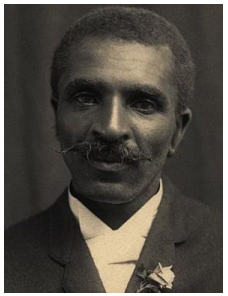
Scientists and Careers across the Science Curriculum

Year 1			
Plants	**Animals, including humans**	**Everyday materials**	**Seasonal changes**
Scientists			
  Beatrix Potter (Author and Botanist) Arit Anderson (Garden Designer and presenter of Gardeners World)	  Chris Packham (Animal Conservationist, Wildlife photographer, ASD) Malaika Vaz (Wildlife Videographer and National Geographic Explorer)	  William Addis (Inventor of the toothbrush) Dr Pearl Agyakwa (Materials scientist)	  Liam Dutton (Weatherperson/Meteorologist) John Dalton (British Weather pioneer)
Careers			
Arborist (cares for and manages trees) Botanist (studies plants)	Zoologist (studies animals) Wildlife photographer (takes pictures of animals and plants)	Materials scientist (researches structures and properties of materials)	Meteorologist (studies the atmosphere and weather) Climatologist (studies climate patterns)
Working scientifically skills			
I'm observing closely like an arborist. I'm identifying and classifying like a botanist.	I'm asking questions like a zoologist. I'm observing closely, using simple equipment, like a wildlife photographer.	I'm performing simple tests like a materials scientist.	I'm using my observations to suggest answers to questions like a meteorologist. I'm gathering and recording data like a climatologist.

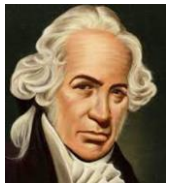
Scientists and Careers across the Science Curriculum

Year 2			
Living things and their habitats	**Plants**	**Animals, including humans**	**Uses of everyday materials**
Scientists			
  Rachel Carson (Marine Biologist) Tanesha Aleen (Zoologist)	  George Washington Carver (Botanist) Agnes Arber (1879-1960) Botanist	  Dr Donald Palmer (researches the ageing of the immune system) Bear Grylls (Survival Expert)	  Charles Macintosh (Inventor of waterproof material) Danial Azahan (Mechanical engineer)
Careers			
Taxonomist (classifies animals and plants) Wildlife Filmmaker (creates films and documentaries about wildlife)	Gardener (creates and maintains gardens and green spaces) Tree surgeon (plants, maintains and manages trees)	Animal behaviourist (studies animal interactions) Exercise physiologist (a doctor who helps people improve their fitness)	Builder (builds structures) Mechanical engineer (designs, analyses and manufactures mechanical systems)
Working scientifically skills			
I'm identifying and classifying like a taxonomist. I'm observing closely, using simple equipment, like a wildlife filmmaker.	I'm observing closely like a tree surgeon.	I'm asking questions like an animal behaviourist. I'm gathering and recording data like an exercise physiologist.	I'm performing simple tests like a builder. I'm using my observations to suggest answers to question like a mechanical engineer.

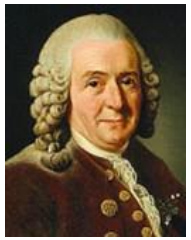
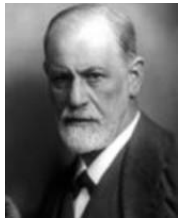
Scientists and Careers across the Science Curriculum

Year 3				
Plants	**Animals, including humans**	**Rocks**	**Light**	**Forces and magnets**
Scientists				
  Ahmed Mumin Warfa (Somali Botanist) Maria Sibylla Merian (1647-1717) (Documented the relationship between plants and insects)	  Willhelm Röntgen (Invented the X-Ray) Zubair Haleem (Academy physio at Arsenal)	  Mary Anning (Fossilist) Christopher Jackson (geologist)	  Ibn al-Haytham (Mathematician and astronomer) Patricia Bath (Ophthalmologist and inventor)	  William Gilbert (Magnetism and electricity) Jyoti Sehdev (Senior civil engineer)
Careers				
Horticulturist (an expert in garden cultivation and management) Irrigation engineer (creates and develops water systems)	Physiologist (a scientist who studies how plants and animals function) Dietician (developes nutrition advice to improve people's diets)	Geologist (studies the Earth and what it is made of, including rocks) Volcanologist (studies volcanoes)	Astronomer (studies space) Optician (a doctor specialising in vision and eye health)	Architect (designs buildings) Seismologist (studies earthquakes)
Working scientifically skills				
I'm taking accurate measurements using equipment like a horticulturist. I'm using scientific enquiries to answer questions like an irrigation engineer. .	I'm making systematic and careful observations like a physiologist. I'm using results to make predictions and draw conclusions like a dietician.	I'm performing comparative and fair tests like a geologist. I'm using scientific evidence to answer questions like a volcanologist.	I'm identifying differences and similarities like an astronomer. I'm presenting my findings using my oracy skills like an optician.	I'm recording findings using diagrams, charts and tables like an architect. I'm gathering, recording and presenting data like a seismologist.

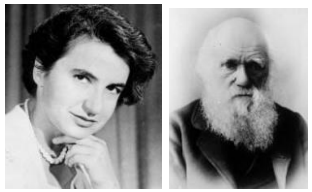
Scientists and Careers across the Science Curriculum

Year 4				
ving things and their bitats	**Animals, including humans**	**States of matter**	**Sound**	**Electricity**
Scientists				
  em Singh Gill olar scientist) adys West athematician/GPS - link to ampstead Heath topic)	  Ivan Pavlov (Physiologist) Charlotte Armah (nutritional biochemist - looking at the effect of diet on human health)	  Daniel Farenheit (Inventor of the thermometer) Dr Fangxian Fang (Earth scientist)	  Evelyn Glennie (Deaf percussionist) Karrie Keyes (Audio engineer)	  Michael Faraday (Physicist) Hertha Ayrton (Electrical engineer and sufragette)
Careers				
nservationist (works for the otection and preservation of ng things and the vironment) ologist (studies interactions tween living things and their vironments)	Orthodontist (a doctor who looks after people's teeth and gums) Nutritionist (studies nutrition in food and how it affects our bodies)	Nanoscientist (studies incredibly small things such as atoms) Science teacher (teaches others about science)	Audiologist (studies sound and its properties) Sound engineer (deals with sound for broadcasts or musical performances)	Electrical engineer (works with equipment that uses electricity) Physicist (studies physics)
Working scientifically skills				
n gathering, recording and esenting data like an ologist. n presenting my findings using y oracy skills like a nservationist.	I'm making systematic and careful observations like an orthodontist. I'm using results to make predictions and draw conclusions like a nutritionist.	I'm taking accurate measurements using equipment like a nanoscientist. I'm using scientific evidence to answer questions like a science teacher.	I'm identifying differences and similarities like an audiologist. I'm using scientific enquiries to answer questions like a sound engineer.	I'm performing comparative and fair tests like an electrical engineer. I'm recording findings using diagrams, charts and tables like a physicist.

Scientists and Careers across the Science Curriculum

Year 5				
Living things and their habitats	**Animals, including humans**	**Properties and changes of materials**	**Earth and space**	**Forces**
Scientists				
  Malaika Vaz (National Geographic explorer) Carl Linneus (botanist and zoologist)	  Sigmund Freud (Created psychoanalysis) Olive Guthrie Smith (physiotherapist)	  Becky Schroeder (Inventor of the glow sheet) Dr Nira Chamberlain (polymath/mathematician who studies applied mathematics in science)	  Mai Jemison (Astronaut) Dr Helen Mason (Solar scientist)	  Isaac Newton (Discovered gravity) Rafsan Chowdhury (Mechanical Engineer)
Careers				
Farmer (grows crops and raises animals for food) Oceanographer (studies the physical and biological aspects of the ocean)	Physiotherapist (helps people affected by illness, injury or disability thorough movement and exercise) Psychiatrist (a doctor who specialists in mental health)	Chemical engineer (solves problems involving chemicals) Biochemist (investigates chemical processes that take place inside living things)	Astronaut (travels to space to carry out research) Astronautical engineer (develops spacecraft) Astrophysicist (studies the physics of space and objects in space)	Aeronautical engineer (designs, develops, manufactures and maintains aircraft) Builder (builds structures) Mechanical engineer (designs, analysis and manufactures mechanical systems)
Working scientifically skills				
I'm recognising and controlling variables like a farmer. I'm recording data like an oceanographer	I'm identifying scientific evidence to support ideas like a physiotherapist. Him reporting causal relationships like a psychiatrist.	I'm setting up comparative and fair tests like a biochemist. I'm planning different types of scientific enquiries like a chemical engineer.	I'm presenting findings and conclusions like an astrophysicist. I'm using scientific diagrams and labels like an astronautical engineer.	I'm taking measurements like an aeronautical engineer. I'm using test results to make predictions like a mechanical engineer.

Scientists and Careers across the Science Curriculum

Year 6				
Living things and their habitats	**Animals, including humans**	**Evolution and inheritance**	**Light**	**Electricity**
Scientists				
 Carl Linneus (Naturalist and botanist) Nazifa Tabassum (Microbiologist and Science Communicator)	 Elizabeth Anionwu (Sickle cell and thalassemia specialist) Barouh Berkovits (invented the pacemaker and defibrillator) William Harvey (Discovered how blood moves through the body)	 Rosalind Franklin (Discovered the structure of DNA) Charles Darwin (Naturalist, developed the theory of evolution)	 CV Raman (Physicist) Professor Colin Webb (Professor of Laser Physics)	 Mo Ibrahim (Pioneer in the mobile phone industry) Hertha Ayrton (Engineer, physicist, mathematician and inventor)
Careers				
Microbiologist (studies tiny living things) Plant geneticist (studies genetics in plants - many work on developing crops to be more robust or provide more nutrition)	Cardiologist (a doctor specialising in the heart and circulatory system) Haematologist (studies blood and its diseases)	Archeologist (studies history using artefacts) Geneticist (studies genes) Palaeontologist (studies fossils)	Architect (designs buildings) Ophthalmologist (a doctor specialising in vision and eye health)	Electrician (installs and maintains electrical equipment) Renewable energy engineer (works on environmentally conscious energy production)
Working scientifically skills				
I'm using test results to make predictions like a microbiologist. I'm reporting causal relationships like a plant geneticist.	I'm recording data like a cardiologist. I'm using scientific diagrams and labels like a haematologist.	I'm identifying scientific evidence to support ideas like a palaeontologist. I'm presenting findings and conclusions like an archeologist.	I'm recognising and controlling variables like an ophthalmologist. I'm taking measurements like an architect.	I'm planning different types of scientific enquiries like a renewable energy engineer. I'm setting up comparative and fair tests like an electrician.

Scientists and Careers across the Science Curriculum