

# Science Overview

## NC Aims

The national curriculum for science aims to ensure that all pupils:

1. develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics - *use the PLAN knowledge matrices*
2. develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them - *teach knowledge and address misconceptions through practical science*
3. are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future - *to be addressed as part of each unit*

In Years, 1, 2 and 4 the units of plants, seasonal change and living things including habitats will be taught throughout the year to observe and record changes.

Whizz Pop Bang magazine edition that directly links (WPB)

ASE Resources available - lesson planning - saved in planning Year group file - all lessons are planned if you want to use them!

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	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<p>Materials ASE</p> <p>Scientist: Charles Macintosh- Waterproof material</p>	<p>Seasonal Change</p> <p>Plants ASE</p> <p>Scientist: Emma Williams (Botanist)</p>	<p>Animals Inc. Humans</p> <p>Scientist: Chris Packham- Animal Conservat ionist</p>	<p>Seasonal change</p> <p>ASE</p> <p>Scientist : Dr Steve Lyons (Extreme Weather)</p>	<p>Plants ASE</p> <p>Scientist: Wangari Maathai environmen talist</p>	<p>Weeks 1- 5 recap each of the units, one each week. Any order. Make sure that all scientific enquiry types and skills have been covered. Presentation s, posters leaflets are</p>

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						all fine but not a focus on English skills, focus on investigation n where possible - look through explorify problem solvers?
Linked text used						
Year 2	Living things and habitats	Plants ASE	Materials ASE	Plants ASE	Animals Inc. Humans	Weeks 1- 5 recap each of

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	<p>Scientist: Rachel Carson- Marine Pollution</p>	<p>Scientist: Angie Burnett 'A scientist just like me'</p>	<p>Scientist: Chester Greenwood- Earmuffs</p>	<p>Scientist : Agnes Arber Botanist</p>	<p>Scientist: Elizabeth Garrett Anderson - First British female physician and surgeon</p>	<p>the units, one each week. Any order. Make sure that all scientific enquiry types and skills have been covered. Presentations, posters leaflets are all fine but not a focus on English skills, focus on investigation where</p>
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Year 3	<p>Forces and magnets</p> <p>WPB: On the move/Science of attraction/Wild Wheels</p> <p>Scientist: Andre Marie Ampere- Electro-magnetism</p>	<p>Light</p> <p>WPB: Hello Sunshine/ Eye Spy</p> <p>ASE</p> <p>Scientist: Justus Von Liebig Mirrors</p>	<p>Rocks (Link to history - Prehistory )</p> <p>WPB: Rock on</p> <p>Scientist: Mary Anning- Fossil hunter</p>	<p>Animals Inc. Humans</p> <p>WPB: Spectacular Skeletons</p> <p>Scientist: Wilhelm</p>	<p>Plants</p> <p>WPB: Amazing grazing/Jumping jungles</p> <p>ASE</p> <p>Scientist: Ahmed Mumin .</p>	<p>Weeks 1- 5</p> <p>recap each of the units, one each week. Any order. Make sure that all scientific enquiry types and skills have been covered.</p>

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				Rontgen - X rays	Warfa - Botanist	Presentation s, posters leaflets are all fine but not a focus on English skills, focus on investigation n where possible - look through explorify problem solvers?
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Year 4	<p>States of matter</p> <p>WPB: Quake rattle and roll/Sparkly science</p> <p>ASE</p> <p>Scientist: Lord Kelvin -Absolute zero (temperature)</p>	<p>Animals Inc. Humans</p> <p>WPB: Terrific Teeth</p> <p>Scientist: William Beaumont (Stomach acid)</p>	<p>Electricity</p> <p>WPB: Shocking Science</p> <p>Scientist: Michael Faraday- Discovere d relationsh ip between magnets and electricity</p> <p>(Chance to revisit magnetis</p>	<p>Living things and habitats</p> <p>WPB: Incredib le insects/P esky parasite s</p> <p>ASE</p> <p>Scientist : Jacques Cousteau -</p>	<p>Sound</p> <p>WPB: Jingle Bell Rock/Turn up the volume</p> <p>Scientist: Alexander Graham Bell -Invented the telephone</p>	<p>Weeks 1- 5 recap each of the units, one each week. Any order. Make sure that all scientific enquiry types and skills have been covered. Presentation s, posters leaflets are all fine but not a focus on English skills, focus on</p>
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			m from Year 3)	Marine Biology		investigation n where possible - look through explorify problem solvers?
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Year 5	Materials  ASE  Scientist:	Forces and magnets WPB : On the move/Sci ence of	Earth and space WPB : Over the moon/Mis sion to Mars	Living things and habitats  ASE	Animals Inc. Humans  Scientist: Sir John Charnley - English	Weeks 1- 5 recap each of the units, one each week. Any order.




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	Becky Schroeder - fluorescence material	attractio n/Wild Wheels  Scientist: Galileo Galilei - Gravity and Accelerat ion	Scientist: Helen Sharman- GB astronaut	Scientist : Mangala Mani - Antarctic scientist	orthopaedic surgeon (hip replacements).	Make sure that all scientific enquiry types and skills have been covered. Presentation s, posters leaflets are all fine but not a focus on English skills, focus on investigatio n where possible - look through explorify
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Year 6	<p>Living things and habitats</p> <p>ASE</p> <p>Scientist: Carl Linneaus</p> <p>Project grant - speak to Mr Min/Dr G</p>	<p>Light WPB: Hello Sunshine/ Eye Spy</p> <p>ASE</p> <p>Scientist: Percy Shaw - The Cats Eye</p>	<p>Evolution and inheritance</p> <p>WPB: Dino Giants/Remarkable reefs</p> <p>Scientist: Mary Anning, Alfred Wallace, Charles Darwin</p>	<p>Animals Inc. Humans</p> <p>WPB: Bug tasting bacteria</p> <p>Scientist: Dr. Katherine Dibb - Expert in Cardiovascular Sciences</p>	<p>Electricity Scientist: Edith Clarke -Electrical engineer</p>	<p>Weeks 1- 5 recap each of the units, one each week. Any order. Make sure that all scientific enquiry types and skills have been covered. Presentations, posters leaflets are</p>

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