






# Science Enquiry map

The blue hyperlinks take you to an Explorify activity and the black writing is a suggested activity from 'A Creative Approach to teaching Science' by Nicky Waller.

Over the course of an academic year, children will carry out several investigations which involve different types of enquiry approaches. We map these approaches into 5 types:

<b>Observing over time</b>	
<b>Noticing patterns</b>	
<b>Identifying, classifying and grouping</b>	
<b>Comparative and fair tests</b>	
<b>Research using secondary sources</b>	

# Science Enquiry map

## Monet (Year 1/2)

	Observing over time	Noticing patterns	Identifying, classifying and grouping	Comparative and fair testing	Using secondary sources
<b>Animals, including humans</b>	<a href="#">Unexpected eggs</a> <a href="#">Looking after baby</a>  What's for dinner? Open wide! Who is coming to tea? Body part collage	<a href="#">Special delivery</a> <a href="#">Prehistoric shapes</a>  Body part collage Animal x-rays	<a href="#">Baby animals</a> <a href="#">Hot-steppers</a> <a href="#">Say cheese</a> <a href="#">Spooky animals</a>  How big? How small? What's for dinner? Open wide! Who is coming to tea? Body part collage Animal x-rays	<a href="#">Bird feeders</a> <a href="#">How would you make a shelter for a human?</a>  Body part collage	<a href="#">What if humans hibernated?</a> <a href="#">What if my bones were bendy?</a> <a href="#">What if we couldn't smell things?</a>  Body part collage Animal x-rays
<b>Plants</b>	<a href="#">Rich pickings</a> <a href="#">Spring flowers</a> <a href="#">Shooting sprouts</a>	<a href="#">Types of apple</a> <a href="#">Winter scenes</a> <a href="#">Brown and sticky</a>	<a href="#">Timewarp plants</a> <a href="#">Types of leaves</a> <a href="#">Brill gills</a> <a href="#">Curious crown</a>	<a href="#">Do you need big seeds to grow big plants?</a>	<a href="#">What if plants could move from one place to another?</a>
<b>Living things and habitats (biodiversity and interdependence)</b>	<a href="#">Sandy adventurers</a>	<a href="#">Busy bee</a>	<a href="#">Australian animals</a> <a href="#">Mystery markings</a> <a href="#">Savannah sidekicks</a>		<a href="#">How would you survive in a rainforest?</a>
<b>Materials</b>	<a href="#">Bonkers Bubbles</a> <a href="#">Liquid densities</a> Materials hunting Feeling boards, walls, books, handprints and collages	<a href="#">Burly bridges</a> <a href="#">Functional footwear</a> <a href="#">Protective measures</a>	<a href="#">Unusual houses</a> <a href="#">Wonderful wheels</a> <a href="#">Maritime medley</a> <a href="#">Synthetic selection</a> Guessing games Materials hunting Feeling boards, walls, books, handprints and collages	<a href="#">Which is the bendiest?</a> <a href="#">Unusual plant pots</a>	What if every material was <a href="#">rigid</a> , or <a href="#">stretchy</a> , or <a href="#">transparent</a> ? <a href="#">What if your school banned paper?</a>

# Science Enquiry map

## Kandinsky (Year 3/4)

	Observing over time	Noticing patterns	Identifying, classifying and grouping	Comparative and fair testing	Using secondary sources
<b>Animals including humans</b>	<a href="#">Thirsty work</a> <a href="#">The damselfly's day</a>  How much fat? Human digestive system Digestive system measuring	<a href="#">Odd octopus</a>  How much fat? Bones for support Muscles for movement Digestive system measuring Open wide!	<a href="#">Topsy turvy</a> <a href="#">Weird walkers</a> <a href="#">Spot the difference</a>  Reading and comparing nutrition labels Bones for support Muscles for movement Take a bite Presenting food chains	<a href="#">Which breakfast is best?</a>  How much fat? Digestive system measuring Exploring owl pellets	<a href="#">What if we ate insects?</a>  Reading and comparing nutrition labels Nutrition calculators How much sugar? Five a day Creative x-rays
<b>Plants</b>	<a href="#">Venus flytrap</a> <a href="#">What a fun guy</a> <a href="#">Furry fruits</a>  Grow a seed (P11 and 12) How do plants get water?(1) How do plants get water? (2)	<a href="#">Making records</a> <a href="#">Sensitive plant</a>  How do plants get water? (1) How do plants get water? (2)	<a href="#">Friends of flowers</a> <a href="#">Wet, and not so wet, leaves</a>  Grow a seed (P11 and 12) Ouch(1)	<a href="#">How can you tell if something is a plant?</a>  Grow a seed (P11 and 12) Ouch(2)	<a href="#">What if we did not plant trees?</a> <a href="#">What if plants could talk?</a>
<b>Living things and their habitats (biodiversity and interdependence)</b>	<a href="#">Barnacle dive</a> <a href="#">Family meal</a>	<a href="#">Friends of flowers</a>	<a href="#">High rise inhabitants</a> <a href="#">Make a mark</a>  Human classification Animal classification Whole class key Out and about	<a href="#">Make a challenge-proof creature</a>	<a href="#">What if we did not plant trees?</a>  Animal classification Research it
<b>Rocks</b>	<a href="#">Sandcastle</a>  I spy rocks Separating soil	<a href="#">Bubbly water</a>  Separating soil	<a href="#">Mysterious material</a> <a href="#">Kaleidoscope of colour</a> <a href="#">Surprising surface</a>  Comparing and grouping rocks by appearance Comparing and grouping rocks by physical properties I spy rocks	<a href="#">Which rock would be best for a skate ramp?</a>  Comparing and grouping rocks by physical properties Make a mould, cast or amber fossil Separating soil	<a href="#">Do rocks stay the same for ever?</a>

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<b>Light</b>	<a href="#">Exploding lights</a> More data logging The <u>great</u> shadow size investigation	<a href="#">Shadow shapes</a> Sorting light sources Shadow sculpture The great shadow size investigation	<a href="#">Sources of light</a> Sorting light sources	<a href="#">Lightproof your secret den</a> Sorting light sources More data logging The great shadow size investigation	<a href="#">What if we didn't have mirrors?</a>
<b>Forces and magnets</b>	<a href="#">Dancing raisins</a> <a href="#">Egg in bottle</a> Toyologist challenge (1, 2, 3, 4 and 5)	<a href="#">Magnets</a> <a href="#">There's a hole in my bottle</a> Toyologist challenge (1, 2, 3, 4 and 5)	<a href="#">River crossing</a> <a href="#">Moving propellers</a>	<a href="#">Rocket launchers,</a> <a href="#">Marbles</a> <a href="#">Newspaper towers</a> Toyologist challenge (1, 2, 3, 4 and 5) The floating paperclip	<a href="#">What if all transport was electric?</a>
<b>Electricity</b>	Challenge (1-5)	Sweet circuits Challenge (1-5)	Mime it Cut it out!	Challenge (1-5)	
<b>States of matter/materials</b>	<a href="#">Top of the pops</a> Ballooning around Investigate melting and freezing points What melts in the sun? Modelling the water cycle (1 and 2)	<a href="#">Multiple liquid densities</a> Investigate it Investigate melting and freezing points What melts in the sun? Modelling the water cycle (1 and 2)	<a href="#">Nifty naturals</a> <a href="#">Totally organic</a> <a href="#">Branching out</a> Shopping bag sorting	<a href="#">Water carriers</a> <a href="#">Ice lollies</a> <a href="#">How do smells travel?</a> Investigate it Investigate melting and freezing points What melts in the sun?	<a href="#">What if water couldn't freeze? What if the sea was gloopy (like ketchup)?</a> Research it
<b>Sound</b>	<a href="#">Sound of silence</a> Storm in a circle	<a href="#">Rice and rhythm</a> Vibration stations (1 and 2) Storm in a circle Make a clap-o-meter	<a href="#">What's that sound?</a>	<a href="#">Protect your ears</a> Vibration stations (1 and 2) Make a clap-o-meter	<a href="#">Lyre liar</a>

# Science Enquiry map

## Picasso (Year 5/6)

	Observing over time	Noticing patterns	Identifying, classifying and grouping	Comparative and fair testing	Using secondary sources
<b>Animals including humans</b>	<a href="#">Coming out to play</a> <a href="#">Very hungry caterpillars</a>	<a href="#">Get your blood pumping</a>	<a href="#">Terrific tree dwellers</a> <a href="#">Light makers</a>	<a href="#">Does colour affect how we taste things?</a>	<a href="#">What if the average lifespan of a human was 200?</a>
<b>Evolution, adaptation and inheritance</b>	<a href="#">Alien Shapes</a>  A fossil analogy Fossil detectives	<a href="#">On thin ice</a>  A fossil analogy Fossil detectives	<a href="#">Perfect pinchers</a>  Fossil detectives	<a href="#">How much variation is there in how we look?</a>  A fossil analogy	<a href="#">What if we could bring back woolly mammoths?</a>  A fossil analogy Fossil detectives
<b>Living things and their habitats (biodiversity and interdependence)</b>	<a href="#">Tangling brambles</a> <a href="#">Sudden downpour</a>  Recording data over time Growing new plants	<a href="#">Super seeds</a>  Growing new plants	<a href="#">Puddle pals</a> <a href="#">The drinks menu</a>  Physical sorting Growing new plants Classification including micro-organisms	<a href="#">Seeds</a>  Growing new plants	<a href="#">What if there were no deserts?</a>  Research it! Reproduction in animals I'll never remember that! Carl Linnaeus
<b>Light</b>	<a href="#">Light and time</a>  Change the shape	<a href="#">Find your focus</a>  Light maze Light string! Change the shape	<a href="#">Now you see me...</a>  Light maze Light string!	<a href="#">See round the bend</a>  Light maze Change the shape	<a href="#">What if there were two suns?</a>  Change the shape
<b>Forces and magnets</b>	<a href="#">3,2,1, lift off</a>	<a href="#">Blocks</a> <a href="#">Spinning spiral</a>	<a href="#">Shoot the breeze</a> <a href="#">Take your turn</a>	<a href="#">Take a whisk</a> <a href="#">Paper planes</a>	<a href="#">What if there was no gravity?</a> <a href="#">What if brakes were automatic?</a>
<b>Electricity</b>					
<b>Properties and changes of materials</b>	<a href="#">Brilliantly bouncy egg</a> <a href="#">Shaking sensation</a>	<a href="#">Melting ice cubes</a>	<a href="#">Electrifying metals</a> <a href="#">Interesting insulators</a>	<a href="#">How do you protect an egg?</a> <a href="#">How strong is our hair?</a>	<a href="#">What if an astronaut gets thirsty?</a>