**Enquiry maps**

**Year 1–2**

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| --- | --- | --- | --- | --- | --- |
| **Science topic** | **Observing changes over time** | **Noticing patterns** | **Grouping and classifying** | **Comparative or fair tests** | **Using secondary sources** |
| Animals, including humans | [Unexpected eggs](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/unexpected-eggs)  [Looking after baby](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/looking-after-baby) | [Special delivery](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/special-delivery)  [Prehistoric shapes](https://explorify.wellcome.ac.uk/en/activities/mystery-bag/prehistoric-shapes) | [Baby animals](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/baby-animals)  [Hot-steppers](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/hot-steppers)  [Say cheese](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/say-cheese)  [Spooky animals](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/spooky-animals) | [Bird feeders](https://explorify.wellcome.ac.uk/en/activities/problem-solvers/bird-feeders)  [How would you make a shelter for a human?](https://explorify.wellcome.ac.uk/en/activities/the-big-question/how-would-you-make-a-shelter-for-a-human) | [What if humans hibernated?](https://explorify.wellcome.ac.uk/en/activities/what-if/humans-hibernated)  [What if my bones were bendy?](https://explorify.wellcome.ac.uk/en/activities/what-if/my-bones-were-bendy)  [What if we couldn’t smell things?](https://explorify.wellcome.ac.uk/en/activities/what-if/we-couldnt-smell-things) |
| Plants | [Rich pickings](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/rich-pickings)  [Spring flowers](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/spring-flowers)  [Shooting sprouts](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/shooting-sprouts) | [Types of apple](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/types-of-apple)  [Winter scenes](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/winter-scenes)  [Brown and sticky](https://explorify.wellcome.ac.uk/en/activities/zoom-in-zoom-out/brown-and-sticky) | [Timewarp plants](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/timewarp-plants)  [Types of leaves](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/types-of-leaves)  [Brill gills](https://explorify.wellcome.ac.uk/en/activities/zoom-in-zoom-out/brill-gills)  [Curious crown](https://explorify.wellcome.ac.uk/en/activities/zoom-in-zoom-out/curious-crown) | [Do you need big seeds to grow big plants?](https://explorify.wellcome.ac.uk/en/activities/the-big-question/do-you-need-big-seeds-to-grow-big-plants) | [What if plants could move from one place to another?](https://explorify.wellcome.ac.uk/en/activities/what-if/plants-could-move-from-one-place-to-another) |
| Living things and habitats (biodiversity and interdependence) | [Sandy adventurers](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/sandy-adventurers) | [Busy bee](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/busy-bee) | [Australian animals](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/australian-animals)  [Mystery markings](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/mystery-markings)  [Savannah sidekicks](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/savanna-sidekicks) |  | [How would you survive in a rainforest?](https://explorify.wellcome.ac.uk/en/activities/the-big-question/how-would-you-survive-in-a-rainforest) |
| Materials | [Bonkers Bubbles](https://explorify.wellcome.ac.uk/en/activities/zoom-in-zoom-out/bonkers-bubbles)  [Liquid densities](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/liquid-densities) | [Burly bridges](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/burly-bridges)  [Functional footwear](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/functional-footwear)  [Protective measures](https://explorify.wellcome.ac.uk/en/activities/mystery-bag/protective-measures) | [Unusual houses](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/unusual-houses)  [Wonderful wheels](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/wonderful-wheels)  [Maritime medley](https://explorify.wellcome.ac.uk/en/activities/mystery-bag/maritime-medley)  [Synthetic selection](https://explorify.wellcome.ac.uk/en/activities/mystery-bag/synthetic-selection) | [Which is the bendiest?](https://explorify.wellcome.ac.uk/en/activities/the-big-question/which-is-the-bendiest)  [Unusual plant pots](https://explorify.wellcome.ac.uk/en/activities/problem-solvers/unusual-plant-pots) | What if every material was [rigid](https://explorify.wellcome.ac.uk/en/activities/what-if/every-material-was-rigid), or [stretchy](https://explorify.wellcome.ac.uk/en/activities/what-if/every-material-was-stretchy), or [transparent](https://explorify.wellcome.ac.uk/en/activities/what-if/all-materials-were-transparent)?  [What if your school banned paper?](https://explorify.wellcome.ac.uk/en/activities/what-if/your-school-banned-paper) |

**Year 3–4**

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| **Science topic** | **Observing changes over time** | **Noticing patterns** | **Grouping and classifying** | **Comparative or fair tests** | **Using secondary sources** |
| Animals including humans | [Thirsty work](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/thirsty-work)  [The damselfly’s day](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/the-damselflys-day) | [Odd octopus](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/odd-octopus) | [Topsy turvy](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/topsy-turvy)  [Weird walkers](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/weird-walkers)  [Spot the difference](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/spot-the-difference) | [Which breakfast is best?](https://explorify.wellcome.ac.uk/en/activities/the-big-question/which-breakfast-is-best) | [What if we ate insects?](https://explorify.wellcome.ac.uk/en/activities/what-if/we-ate-insects) |
| Plants | [Venus flytrap](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/venus-flytrap)  [What a fun guy](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/what-a-fun-guy)  [Furry fruits](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/furry-fruits) | [Making records](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/making-records)  [Sensitive plant](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/sensitive-plant) | [Friends of flowers](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/friends-of-flowers)  [Wet, and not so wet, leaves](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/wet-and-not-so-wet-leaves) | [How can you tell if something is a plant?](https://explorify.wellcome.ac.uk/en/activities/the-big-question/how-can-you-tell-if-something-is-a-plant) | [What if we did not plant trees?](https://explorify.wellcome.ac.uk/en/activities/what-if/we-did-not-plant-trees)  [What if plants could talk?](https://explorify.wellcome.ac.uk/en/activities/what-if/plants-could-talk) |
| Living things and their habitats (biodiversity and interdependence) | [Barnacle dive](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/barnacle-dive)  [Family meal](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/family-meal) | [Friends of flowers](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/friends-of-flowers) | [High rise inhabitants](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/high-rise-inhabitants)  [Make a mark](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/make-a-mark) | [Make a challenge-proof creature](https://explorify.wellcome.ac.uk/en/activities/mission-survive/make-a-challenge-proof-creature) | [What if we did not plant trees?](https://explorify.wellcome.ac.uk/en/activities/what-if/we-did-not-plant-trees) |
| Rocks | [Sandcastle](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/sandcastle) | [Bubbly water](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/bubbly-water) | [Mysterious material](https://explorify.wellcome.ac.uk/en/activities/zoom-in-zoom-out/mysterious-material)  [Kaleidoscope of colour](https://explorify.wellcome.ac.uk/en/activities/zoom-in-zoom-out/kaleidoscope-of-colour)  [Surprising surface](https://explorify.wellcome.ac.uk/en/activities/zoom-in-zoom-out/surprising-surface) | [Which rock would be best for a skate ramp?](https://explorify.wellcome.ac.uk/en/activities/the-big-question/which-rock-would-be-best-for-a-skate-ramp) | [Do rocks stay the same for ever?](https://explorify.wellcome.ac.uk/en/activities/the-big-question/do-rocks-stay-the-same-forever) |
| Light | [Exploding lights](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/exploding-lights) | [Shadow shapes](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/shadow-shapes) | [Sources of light](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/sources-of-light) | [Lightproof your secret den](https://explorify.wellcome.ac.uk/en/activities/problem-solvers/lightproof-your-secret-den) | [What if we didn’t have mirrors?](https://explorify.wellcome.ac.uk/en/activities/what-if/we-didnt-have-mirrors) |
| Forces and magnets | [Dancing raisins](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/dancing-raisins)  [Egg in bottle](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/egg-in-bottle) | [Magnets](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/magnets)  [There’s a hole in my bottle](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/theres-a-hole-in-my-bottle) | [River crossing](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/river-crossing)  [Moving propellers](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/moving-propellers) | [Rocket launchers](https://explorify.wellcome.ac.uk/en/activities/problem-solvers/rocket-launchers),  [Marbles](https://explorify.wellcome.ac.uk/en/activities/mission-survive/marbles)  [Newspaper towers](https://explorify.wellcome.ac.uk/en/activities/problem-solvers/newspaper-towers) | [What if all transport was electric?](https://explorify.wellcome.ac.uk/en/activities/what-if/all-transport-was-electric) |
| States of matter/materials | [Top of the pops](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/top-of-the-pops) | [Multiple liquid densities](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/multiple-liquid-densities) | [Nifty naturals](https://explorify.wellcome.ac.uk/en/activities/mystery-bag/nifty-naturals)  [Totally organic](https://explorify.wellcome.ac.uk/en/activities/mystery-bag/totally-organic)  [Branching out](https://explorify.wellcome.ac.uk/en/activities/mystery-bag/branching-out) | [Water carriers](https://explorify.wellcome.ac.uk/en/activities/problem-solvers/water-carriers)  [Ice lollies](https://explorify.wellcome.ac.uk/en/activities/mission-survive/ice-lollies)  [How do smells travel?](https://explorify.wellcome.ac.uk/en/activities/the-big-question/how-do-smells-travel) | [What if water couldn’t freeze?](https://explorify.wellcome.ac.uk/en/activities/what-if/water-couldnt-freeze) [What if the sea was gloopy (like ketchup)?](https://explorify.wellcome.ac.uk/en/activities/what-if/the-sea-was-gloopy-like-ketchup) |
| Sound | [Sound of silence](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/the-sound-of-silence) | [Rice and rhythm](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/rice-and-rhythm) | [What’s that sound?](https://explorify.wellcome.ac.uk/en/activities/problem-solvers/what-s-that-sound) | [Protect your ears](https://explorify.wellcome.ac.uk/en/activities/problem-solvers/protect-your-ears) | [Lyre liar](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/lyre-liar) |

**Year 5-6**

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| **Science topic** | **Observing changes over time** | **Noticing patterns** | **Grouping and classifying** | **Comparative or fair tests** | **Using secondary sources** |
| Animals including humans | [Coming out to play](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/coming-out-to-play)  [Very hungry caterpillars](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/very-hungry-caterpillars) | [Get your blood pumping](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/get-your-blood-pumping) | [Terrific tree dwellers](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/terrific-tree-dwellers)  [Light makers](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/light-makers) | [Does colour affect how we taste things?](https://explorify.wellcome.ac.uk/en/activities/the-big-question/does-colour-affect-how-we-taste-things) | [What if the average lifespan of a human was 200?](https://explorify.wellcome.ac.uk/en/activities/what-if/the-average-lifespan-of-a-human-was-200) |
| Evolution and inheritance | [Alien Shapes](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/alien-shapes) | [On thin ice](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/on-thin-ice) | [Perfect pinchers](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/perfect-pinchers) | [How much variation is there in how we look?](https://explorify.wellcome.ac.uk/en/activities/the-big-question/how-much-variation-is-there-in-how-we-look) | [What if we could bring back woolly mammoths?](https://explorify.wellcome.ac.uk/en/activities/what-if/we-could-bring-back-woolly-mammoths) |
| Living things and their habitats  (biodiversity and interdependence) | [Tangling brambles](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/tangling-brambles)  [Sudden downpour](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/a-sudden-downpour) | [Super seeds](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/super-seeds) | [Puddle pals](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/puddle-pals)  [The drinks menu](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/the-drinks-menu) | [Seeds](https://explorify.wellcome.ac.uk/en/activities/mission-survive/seeds) | [What if there were no deserts?](https://explorify.wellcome.ac.uk/en/activities/what-if/there-were-no-deserts) |
| Light | [Light and time](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/light-and-time) | [Find your focus](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/find-your-focus) | [Now you see me…](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/now-you-see-me) | [See round the bend](https://explorify.wellcome.ac.uk/en/activities/problem-solvers/see-round-the-bend) | [What if there were two suns?](https://explorify.wellcome.ac.uk/en/activities/what-if/there-were-two-suns) |
| Forces | [3,2,1, lift off](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/3-2-1-lift-off) | [Blocks](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/blocks)  [Spinning spiral](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/spinning-spiral) | [Shoot the breeze](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/shoot-the-breeze)  [Take your turn](https://explorify.wellcome.ac.uk/en/activities/odd-one-out/take-your-turn) | [Take a whisk](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/take-a-whisk)  [Paper planes](https://explorify.wellcome.ac.uk/en/activities/problem-solvers/paper-planes) | [What if there was no gravity?](https://explorify.wellcome.ac.uk/en/activities/what-if/there-was-no-gravity)  [What if brakes were automatic?](https://explorify.wellcome.ac.uk/en/activities/what-if/brakes-were-automatic) |
| Properties and changes of materials | [Brilliantly bouncy egg](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/brilliantly-bouncy-egg)  [Shaking sensation](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/shaking-sensation) | [Melting ice cubes](https://explorify.wellcome.ac.uk/en/activities/whats-going-on/melting-ice-cubes) | [Electrifying metals](https://explorify.wellcome.ac.uk/en/activities/mystery-bag/electrifying-metals)  [Interesting insulators](https://explorify.wellcome.ac.uk/en/activities/mystery-bag/interesting-insulators) | [How do you protect an egg?](https://explorify.wellcome.ac.uk/en/activities/mission-survive/how-do-you-protect-an-egg)  [How strong is our hair?](https://explorify.wellcome.ac.uk/en/activities/the-big-question/how-strong-is-our-hair) | [What if an astronaut gets thirsty?](https://explorify.wellcome.ac.uk/en/activities/what-if/an-astronaut-gets-thirsty) |