

# British Science Week

## 8-17 March 2024

### Early and First Level activities / KS1

Title	Source	Notes
Following Shadows B4.3 Sneaky Shadows	<a href="https://www.britishscienceweek.org/app/uploads/2023/09/British-Science-Week-2023-Taster-pack-Early-years.pdf">NAC Early Years Outdoor resource https://www.britishscienceweek.org/app/uploads/2023/09/British-Science-Week-2023-Taster-pack-Early-years.pdf</a>	Investigate how the shape of shadows change over time.
Butterfly life cycles Life Cycle Role Plays	<a href="https://ltl.org.uk/resources/life-cycle-role-plays/">NAC Early Years Outdoor resource https://ltl.org.uk/resources/life-cycle-role-plays/</a>	
Evaporating puddles Puddle Potential	<a href="https://ltl.org.uk/resources/puddle-potential">NAC Early Years Outdoor resource https://ltl.org.uk/resources/puddle-potential</a>	Activity 3.2 can be adapted for children to mark the perimeter of puddles at different time intervals to observe their evaporation.
Plant Growth  Green High five Eggy Cress Heads Planting Investigations	<a href="#">NAC School gardening guide.</a> <a href="https://ltl.org.uk/resources/green-high-five/">NAC Early Years Outdoor resource https://ltl.org.uk/resources/green-high-five/</a> <a href="https://ltl.org.uk/resources/eggy-cress-heads/">https://ltl.org.uk/resources/eggy-cress-heads/</a> <a href="https://ltl.org.uk/resources/planting-investigations/">https://ltl.org.uk/resources/planting-investigations/</a>	1. Several crops are available to plant in the school garden in March. 2. For a shorter activity children can observe the germination of a bean seed.

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Stopping time/distance	<a href="#">NAC Early Years Outdoor resource</a>	Activity B2.4 can be adapted to measure stopping time. Investigate how surface and angle of ramp effects stopping time.
Sand Timers Testing Timers	Crest Awards <a href="#">(booklet)</a> <a href="#">(video)</a> <a href="https://www.britishscienceweek.org/app/uploads/2023/09/British-Science-Week-2023-Taster-pack-Early-years.pdf">https://www.britishscienceweek.org/app/uploads/2023/09/British-Science-Week-2023-Taster-pack-Early-years.pdf</a>	Design and Engineering Process. Challenge pupils to improve the design of their sand timer.
Ice Catchers B3.4 Salt and Ice Frozen Bubbles	<a href="#">NAC Early Years Outdoor resource</a> <a href="https://thimbleandtwig.com/outdoor-ice-and-snow-activities-for-kids/">https://thimbleandtwig.com/outdoor-ice-and-snow-activities-for-kids/</a>	Activity B3.4 can be adapted to investigate different methods to melt ice.
Do different coloured ice cubes melt at the same rate?  Ice Cube Painting	Pupils can prepare different colour ice cubes using water and food dye. Place them outdoors or on a sunny windowsill to investigate if different colours melt at different rates. An ice cube with no food dye could be used as a control. <a href="https://thimbleandtwig.com/outdoor-ice-and-snow-activities-for-kids/">https://thimbleandtwig.com/outdoor-ice-and-snow-activities-for-kids/</a>	

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### Second Level activities / KS2 and 3

Title	Source	Notes
Growing Mould	<a href="#">The Fungal Threat. (Page 12)</a>	This activity can be adapted to investigate mould growth over time. E.g. estimate % of bread covered in mould each day. A 10 x 10 grid could be drawn with permanent marker on sandwich bags to help estimations.
Plant Growth Time Lapse Photos Propogating herbs from cuttings Plant Growth and Nutrition	<a href="#">NAC School gardening guide. Effect of Fertiliser on Plant growth.</a> <a href="https://ltl.org.uk/resources/time-lapse-photos/">https://ltl.org.uk/resources/time-lapse-photos/</a> <a href="https://ltl.org.uk/resources/propagating-herbs-from-cuttings/">https://ltl.org.uk/resources/propagating-herbs-from-cuttings/</a> <a href="https://www.britishscienceweek.org/app/uploads/2023/09/British-Science-Week-2023-Taster-pack-Primary.pdf">https://www.britishscienceweek.org/app/uploads/2023/09/British-Science-Week-2023-Taster-pack-Primary.pdf</a>	1. Several crops are available to plant in the school garden in March. 2. For a shorter activity, investigate effect of fertiliser on the growth of cress seeds.
Dissolving time	<a href="#">NAC Second Level Skills Framework</a>	Time as dependent variable
Stopping time/distance Making Another Coaster	<a href="#">Investigating Slopes</a> <a href="https://www.britishscienceweek.org/app/uploads/2023/09/British-Science-Week-2023-Taster-pack-Primary.pdf">https://www.britishscienceweek.org/app/uploads/2023/09/British-Science-Week-2023-Taster-pack-Primary.pdf</a>	Pupils investigate how angles of a ramp effect stopping time or distance of a marble. Extensions: Control the angle, change the surface, e.g. roll onto carpet/laminated flooring/concrete/asphalt.

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Marble Run Outdoor Ball Run Ball Run Bonanza	<a href="https://ltdl.org.uk/resources/ball-run-bonanza/">Industrial Cadets Andnextcomes.com https://ltdl.org.uk/resources/ball-run-bonanza/</a>	Pupil competition to design a marble run that keeps their marble in motion for the longest time. They might experiment with different angles and different materials.
Melting chocolate Making Sticky Chocolate Bananas	<a href="https://getoutwiththekids.co.uk">Second Level Skills Framework Getoutwiththekids.co.uk</a>	Do different types of chocolate melt at the same rate? Time as dependent variable
Do different coloured ice cubes melt at the same rate?  Ice Ships	<a href="https://ltdl.org.uk/free-resources/iceships">Pupils can prepare different colour ice cubes using water and food dye. Place them outdoors or on a sunny windowsill to investigate if different colours melt at different rates. An ice cube with no food dye could be used as a control.  Pupils can also be challenged to design an insulated container that will slow the melting of ice cubes. Time is a dependent variable.  https://ltdl.org.uk/free-resources/iceships</a>	
History of Scottish Scientists	<a href="#">NAC Second Level Framework</a>	This activity can be adapted to create a timeline of Scottish Scientists. Either as an individual or class project.
Litter Pick – decomposition times of marine litter  Decomposition Rates Game	<a href="https://ltdl.org.uk/resources/decomposition-rates-game/">Seashore Science https://ltdl.org.uk/resources/decomposition-rates-game/</a>	Pupils can use activity 7 ‘Going Going gone’ to sort waste collected from a beach clean into a timeline to show decomposition times. This activity can be carried out for litter picks in any environment. A list of decomposition times can be found <a href="#">here</a> . <a href="#">Decomposition rates for different types of plastic.</a> <a href="#">Decomposition rates video.</a>

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### Live Lessons:

Title	Age group	Date / Time	Provider/link
Tech for Sustainable Transport	7 - 11	Tues 12 <sup>th</sup> March 9:30am	<a href="#">TechSheCan</a>
Tech for Sport	7 - 11	Thursday 14 <sup>th</sup> March 9:30am	<a href="#">TechSheCan</a>
BBC Live Lesson (Invertebrate escape room)	7 - 11	TBC	<a href="#">BBC</a>
Time to heal the sea	7 -11	Tuesday 12 <sup>th</sup> March 2:00pm	<a href="#">Encounter Edu</a>
Time to re-wild the ocean	11-14	Thurs 14 <sup>th</sup> March 2:00pm	<a href="#">Encounter Edu</a>
Hello Earth	7 - 11	Tues 12 <sup>th</sup> March 10:00am	<a href="#">STEM Ambassadors</a>
Engineering Story Time	3 - 7	Fir 15 <sup>th</sup> March 11:00am	<a href="#">STEM Ambassadors</a>