



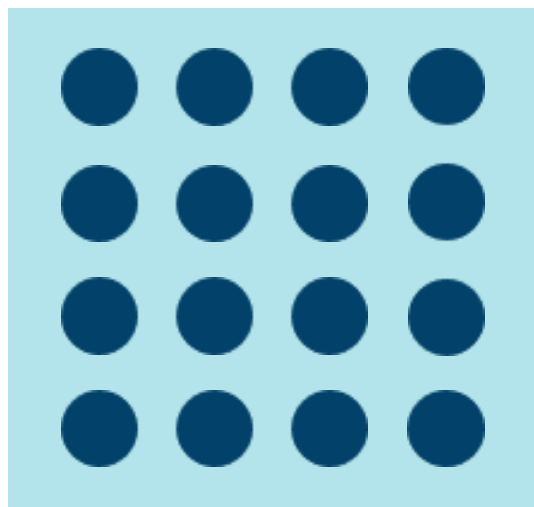
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Curious Minds Award 2023/24

Log of Evidence

Gold Award

Caheragh NS. Co. Cork



Step 1: Science



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Step 1: Science

Living Things



The Middle Classes explored sweet and sour tastes and the amount of sugar and acids in certain fruits.





The Junior Room investigated the growth of bacteria from various surfaces.

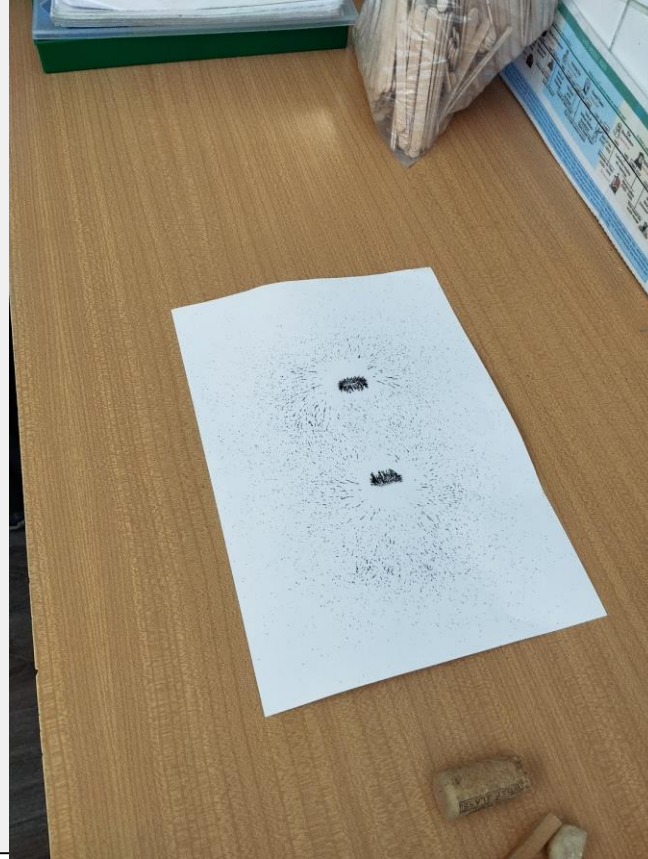


The Senior Room also tested the four basic tastes, sweet, sour, salty and bitter.

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Step 1: Science

Energy and Forces

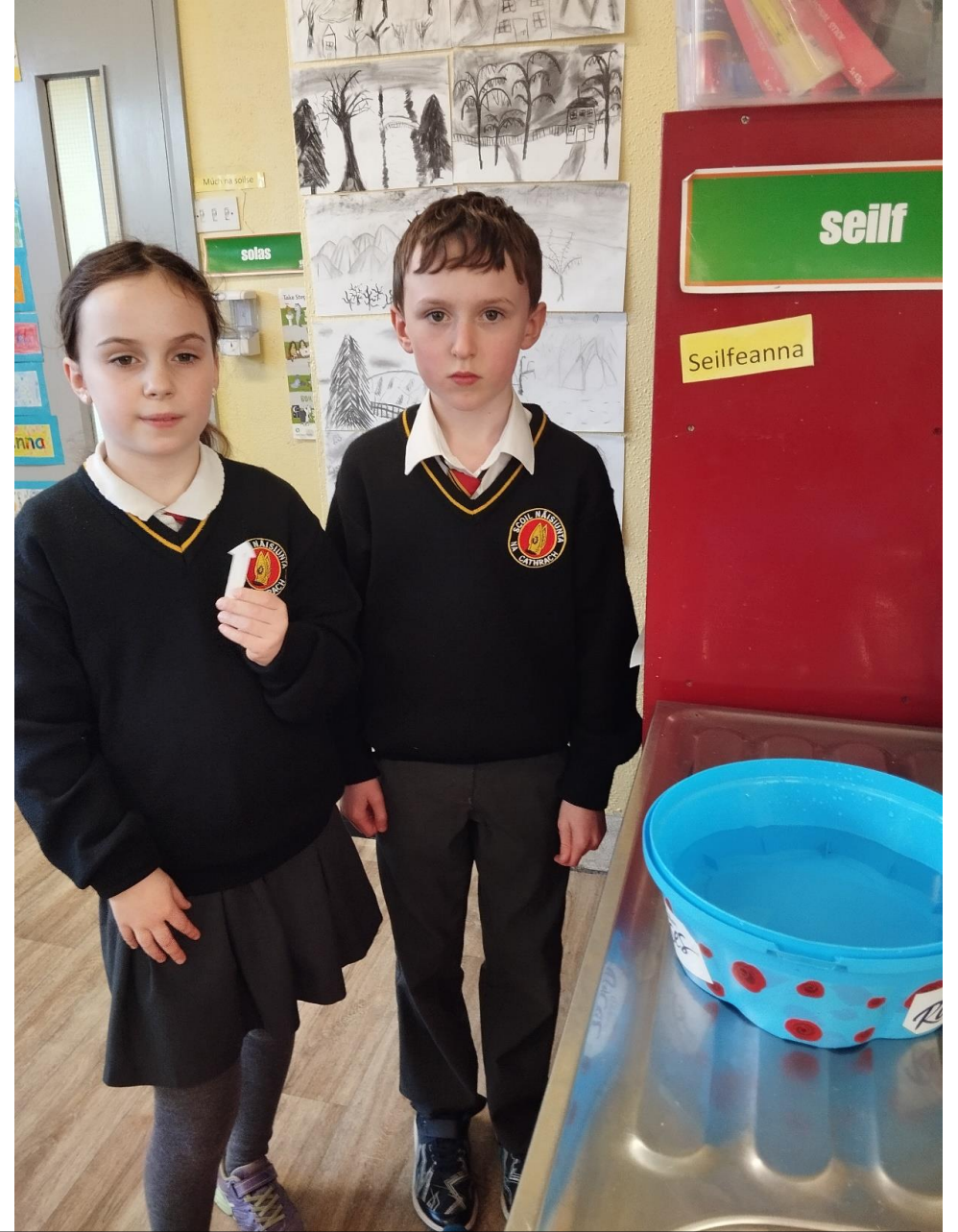


The Middle Room investigated magnetism





Items investigated for magnetism.



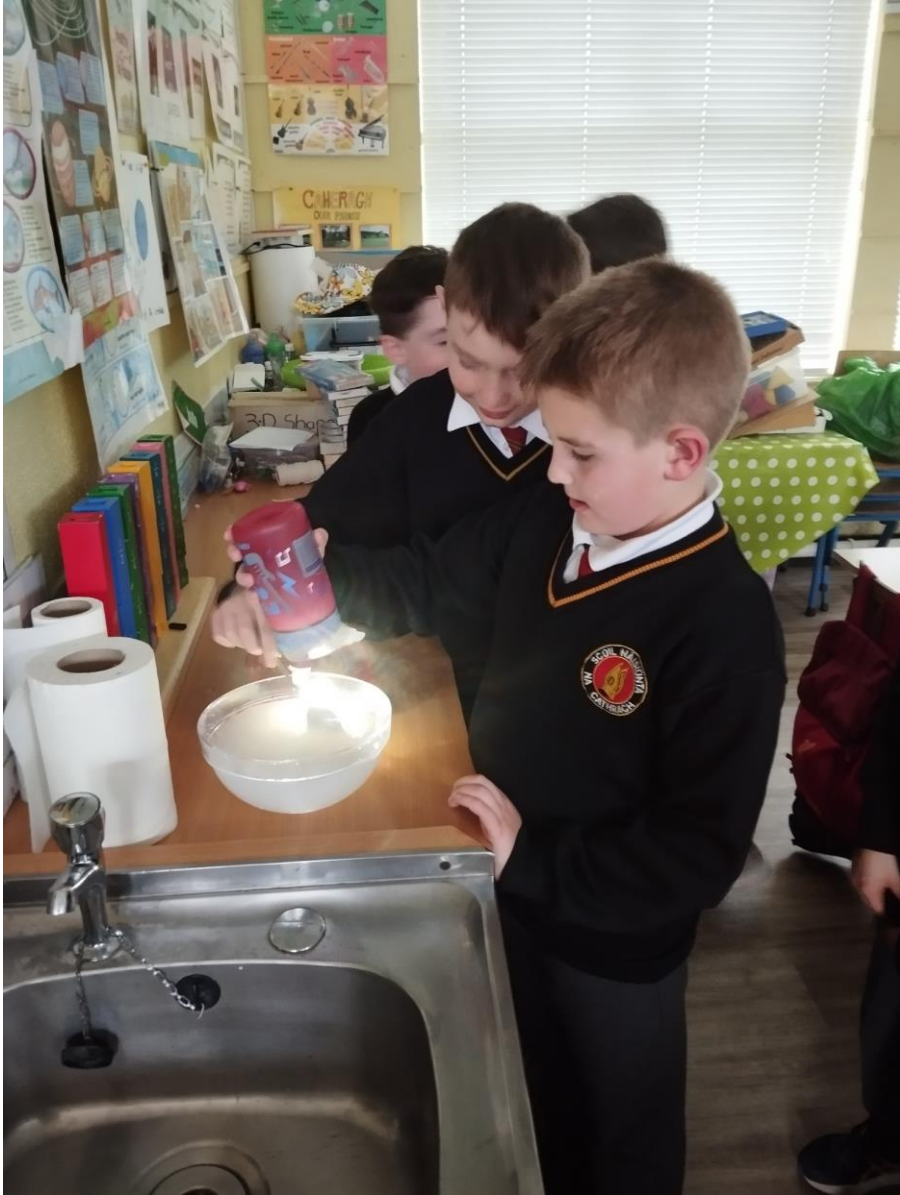
The use of magnets as a compass was explored.



Temperature was investigated, going from cold to hot and hot to cold and the relative nature of this.



Melting and the ability of certain materials to accelerate melting was examined.



Light and how light shines through various liquids was explored, it helped us understand clouds. Sound was also explored through the construction of homemade drums.



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Step 1: Science

Materials



The properties of yeast in the production of carbon dioxide was a popular experiment





The Senior Room looked at the air in marshmallows and how they 'explode' in the microwave (with care)



The Middle room looked at water and air in soap and how 'Soap Sculptures' can be created with care!

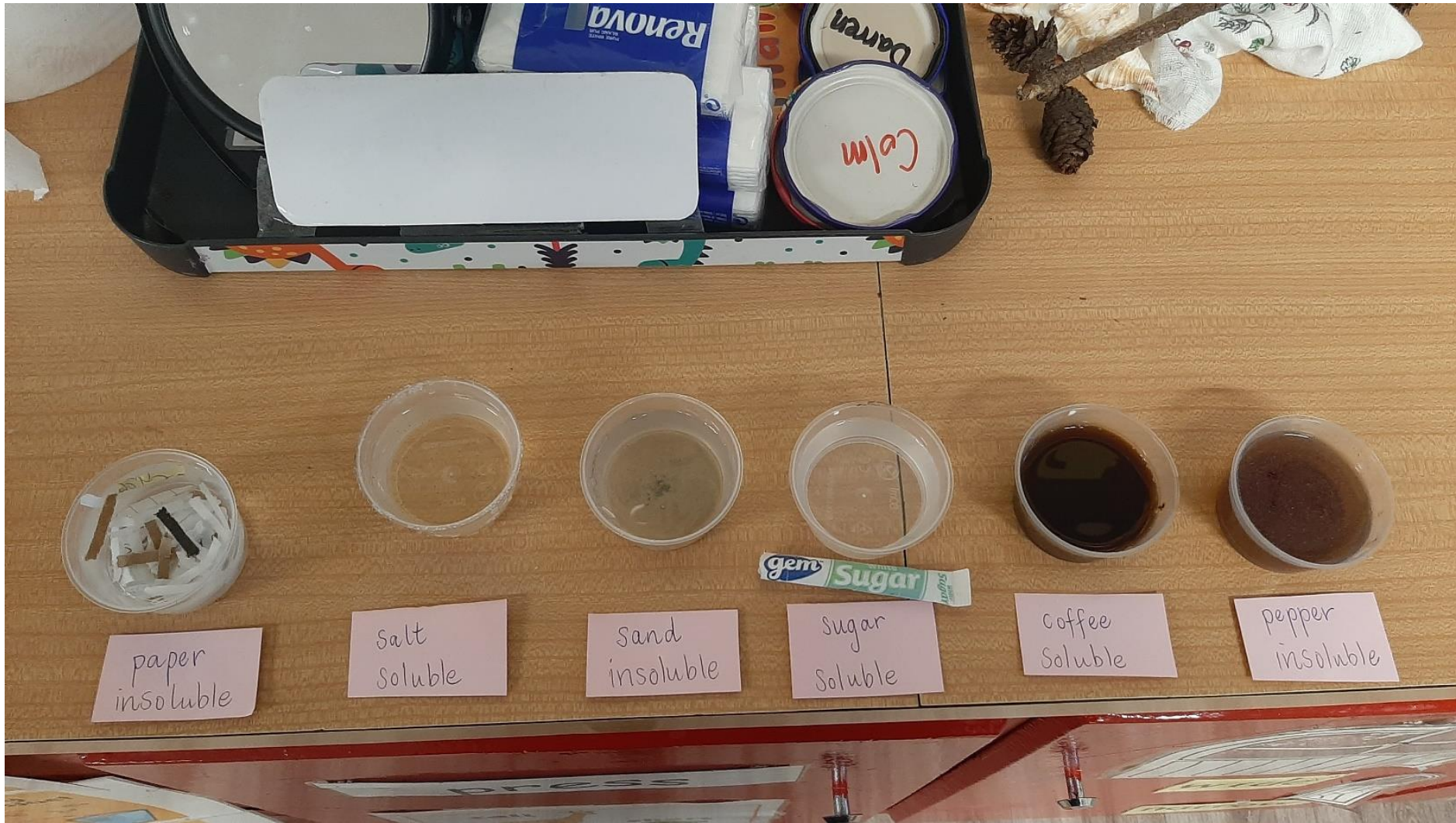




The Junior Room did the Blubber Glove experiment to find out how blubber keeps animals warm.



The Junior Room also explored surface tension, capillary action and



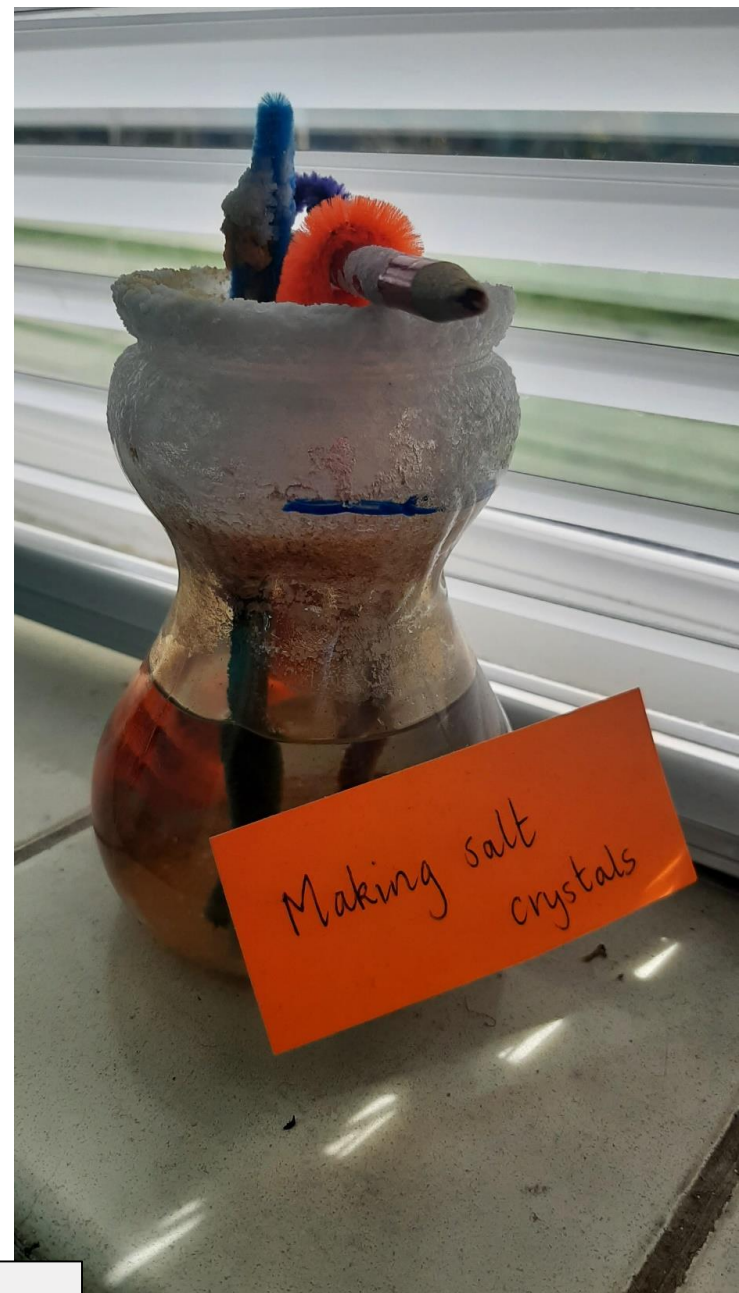
...the solubility and insolubility of different materials.

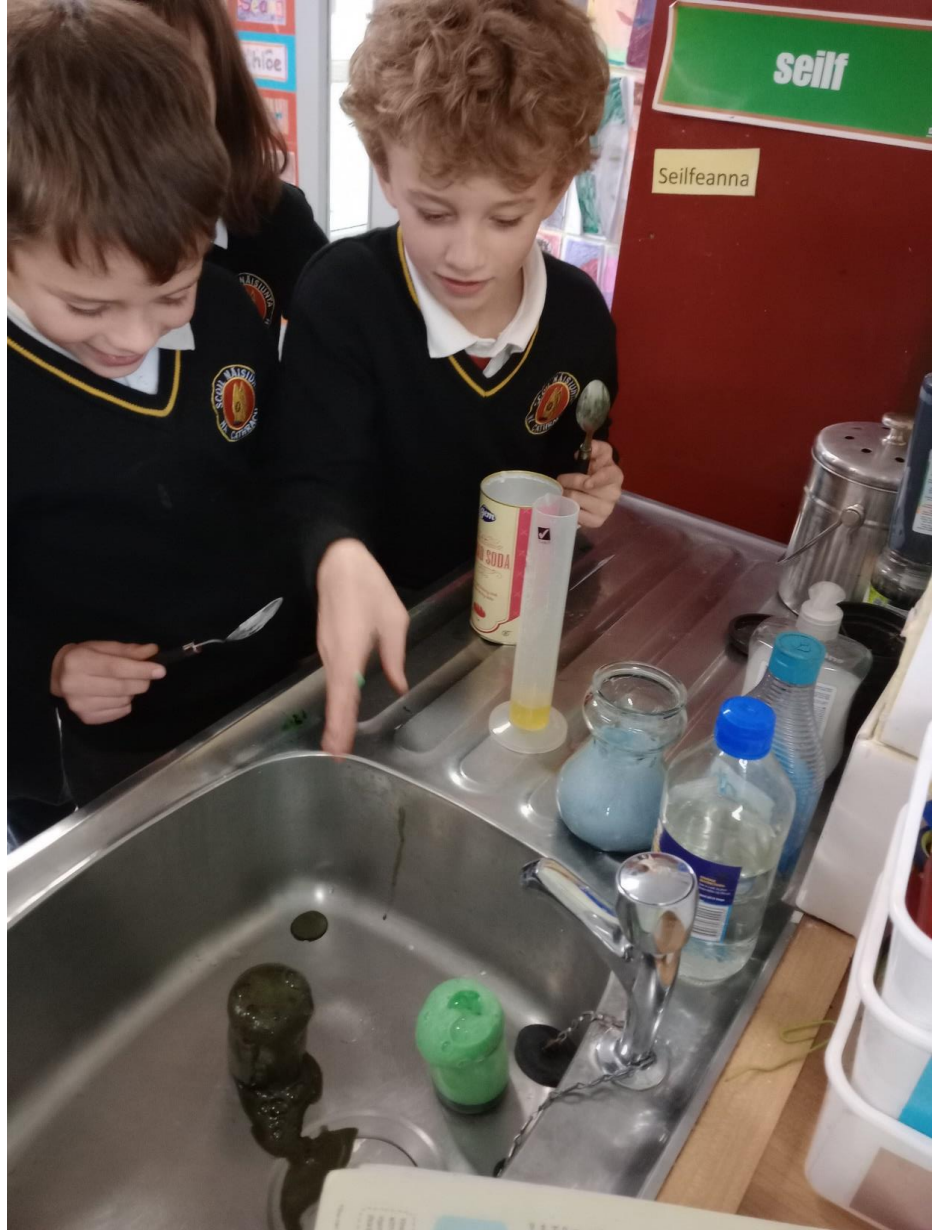


The Senior Room also looked at capillary action and how the different densities of liquids cause them to float on top of each other.



Growing crystals was another popular experiment.





Vinegar, baking soda and food dye were all combined to create some volcanoes.

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Step 1: Science *Environmental Awareness and Care*

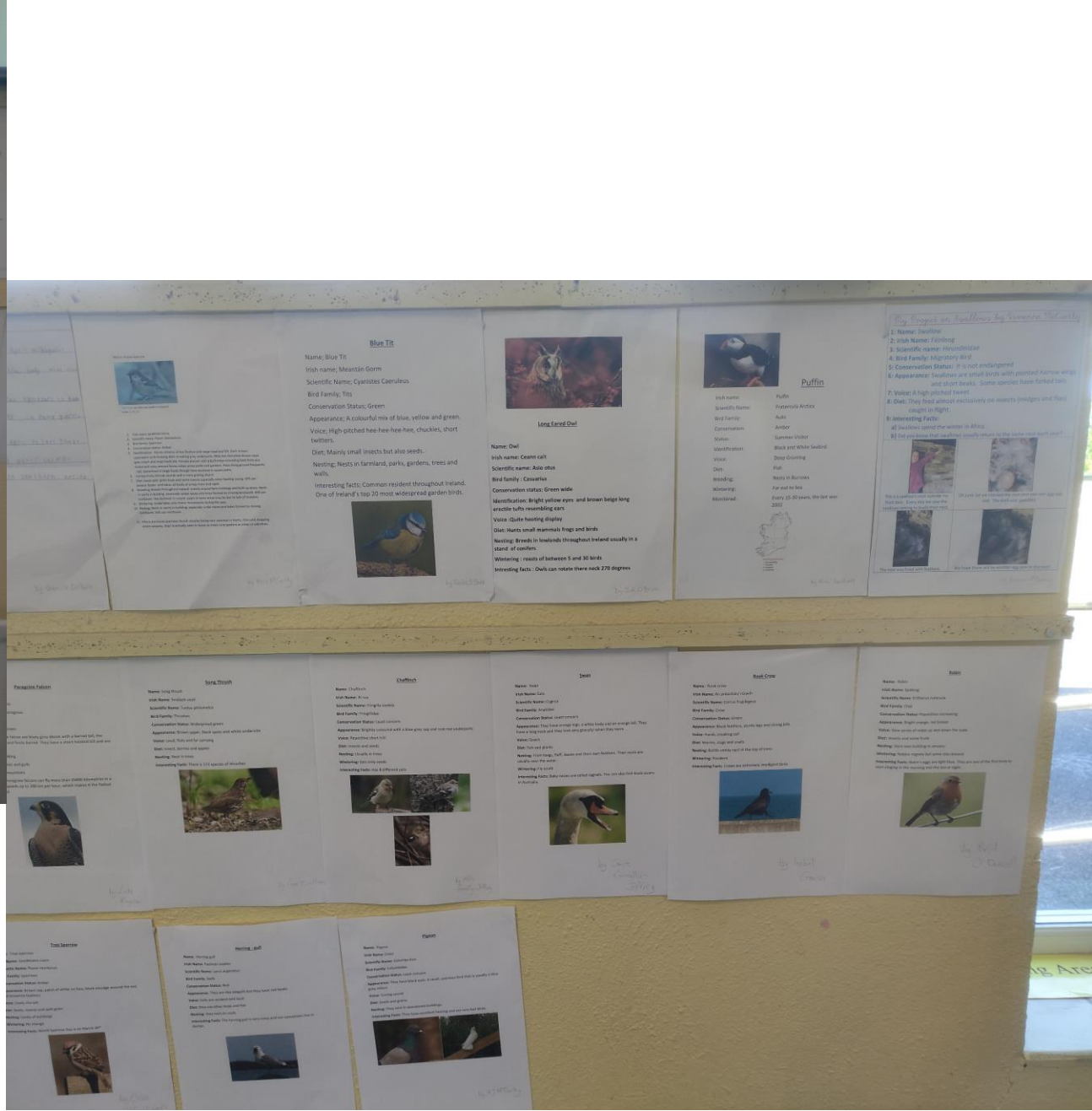
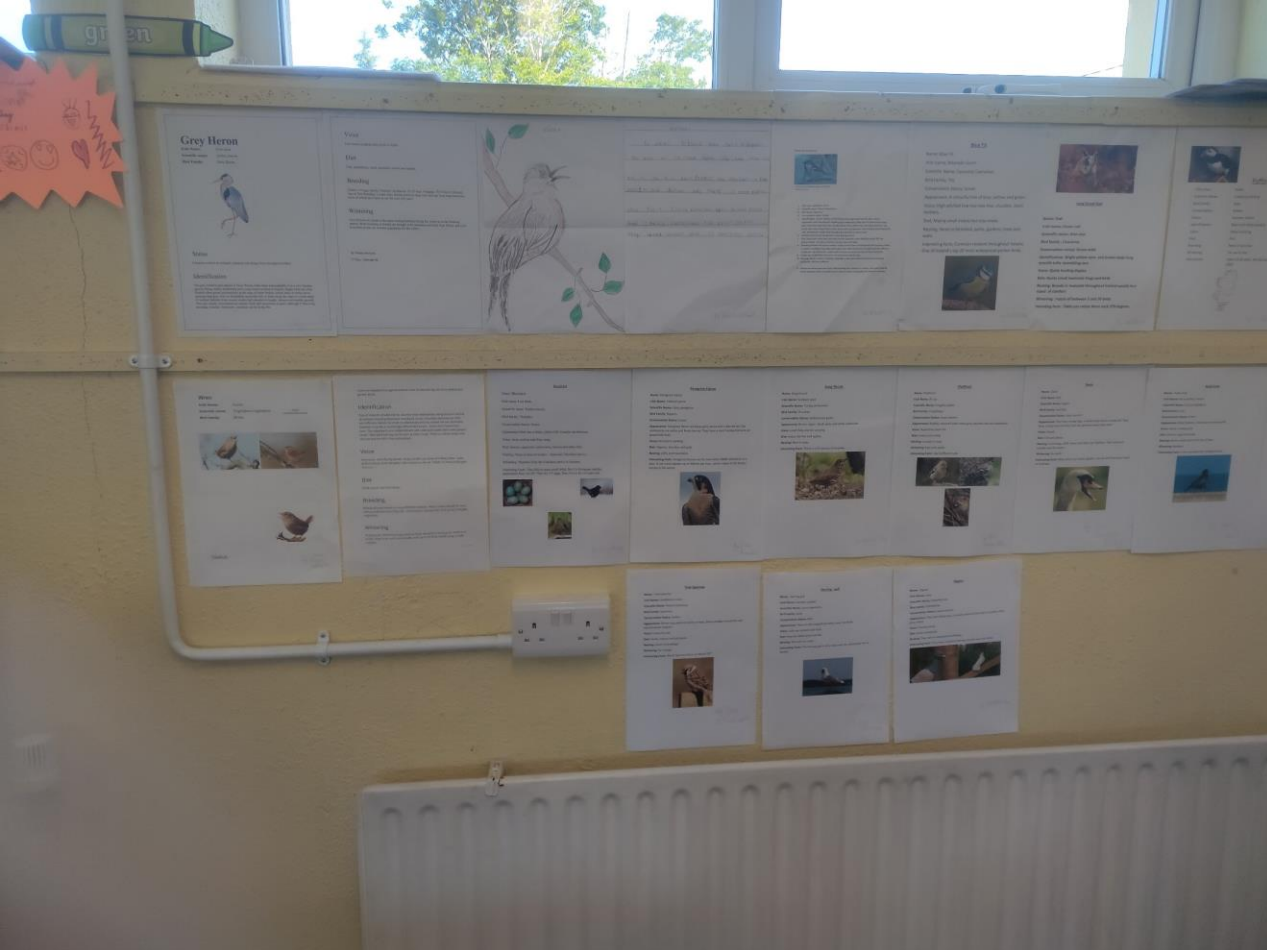


The Junior Room looked at various ways to germinate seeds.





Nature trails were completed and observations recorded



The Middle Room did projects on native Irish birds.



A solar oven was used to melt some delicious treats.





Lots of planting was done across the school with an emphasis on growing vegetables.



Planting and growing





Planting and growing

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Step 1: Science

Lifetime Lab

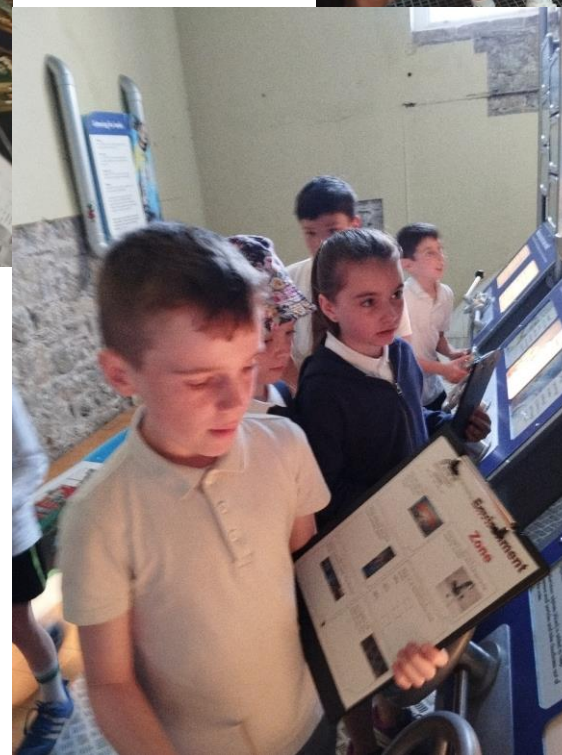


We visited the Lifetime Lab in Cork where we learned about energy production, ...





...water conservation and lots, lots more.



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Step 1: Science

Science/Space Week

- **‘What it Means to be Human’**
- **Virtual Science Shows**
- **Experiments**
- **Science Art**
- **Science History**



Science Week poster with a list of activities. A Science Week experiment.



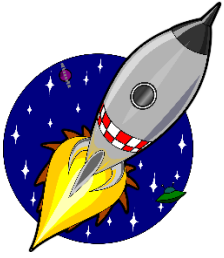


Virtual Shows including history and experiments.





Some more experiments and art based on science, a Chinese wind sock and surface tension using paint.



Space Week Events

Van Gogh Space Art

Seeing Stars

Space Themed Experiments

Space Careers

Telescope Demonstration

Space Week Poster.

We looked at the stars in Van Gogh's art and all classes produced some of our own 'Star Art'. Middle Room Star art.





Senior Room Star art.



Junior Room Star art.

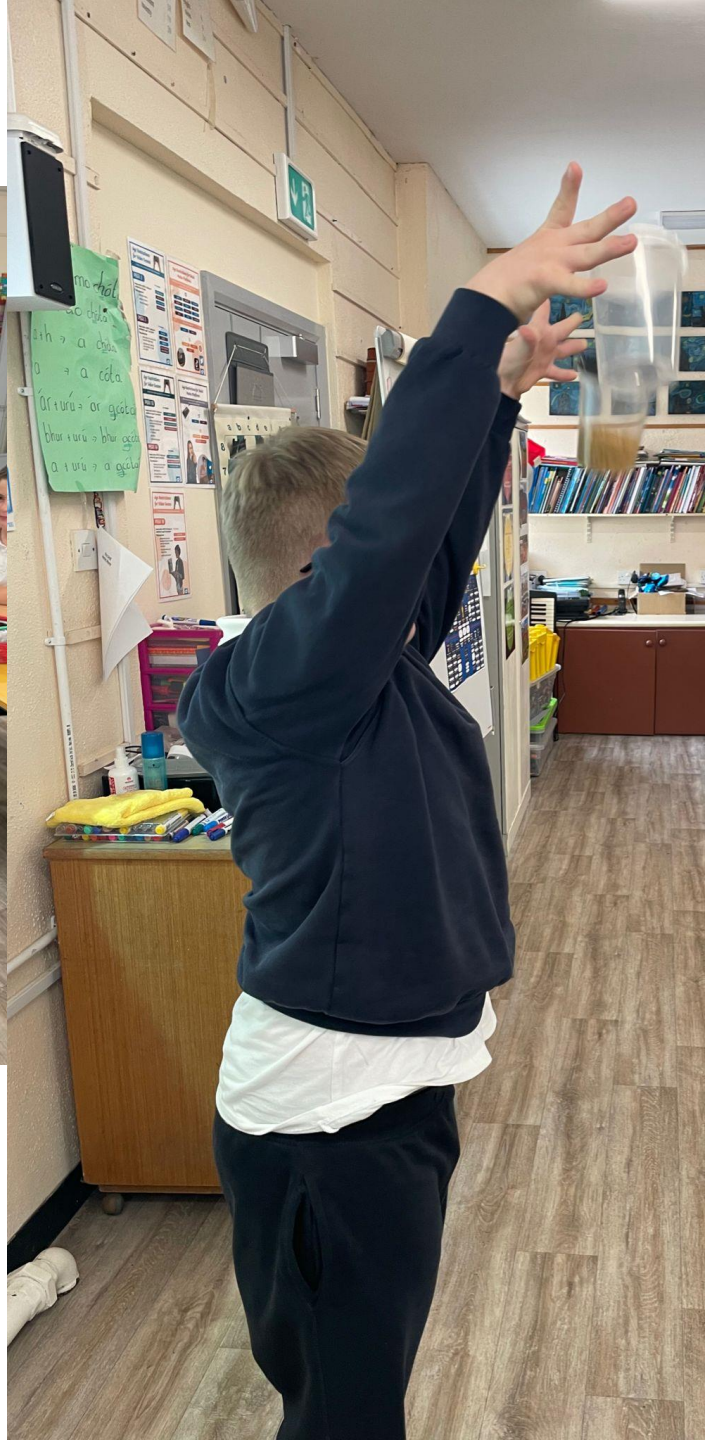
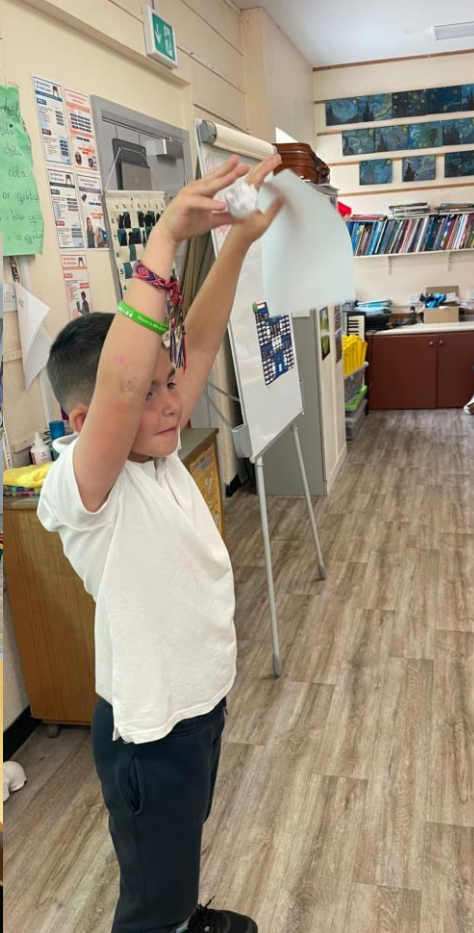
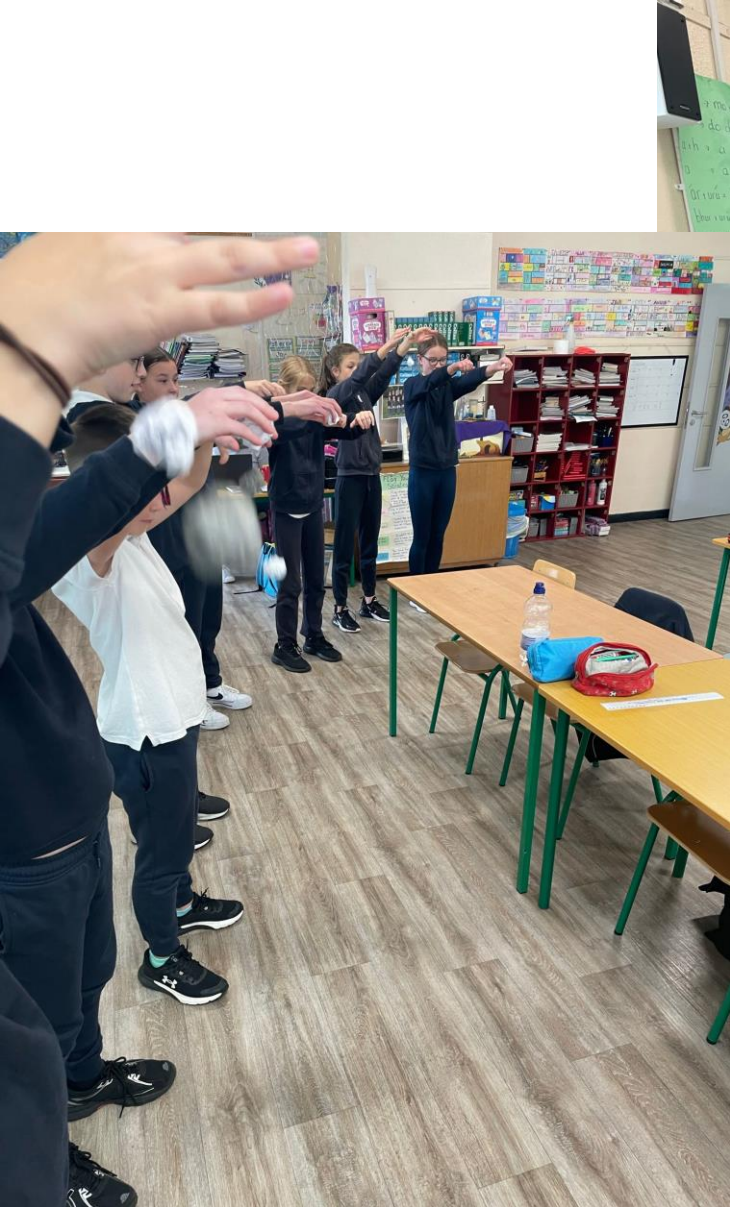


We learned to view objects through a telescope.



The Middle Room compared the size of the planets using everyday objects.





The Senior Room did some gravity themed experiments.



The Junior Room used the Acrobatic Clown to explore gravity.

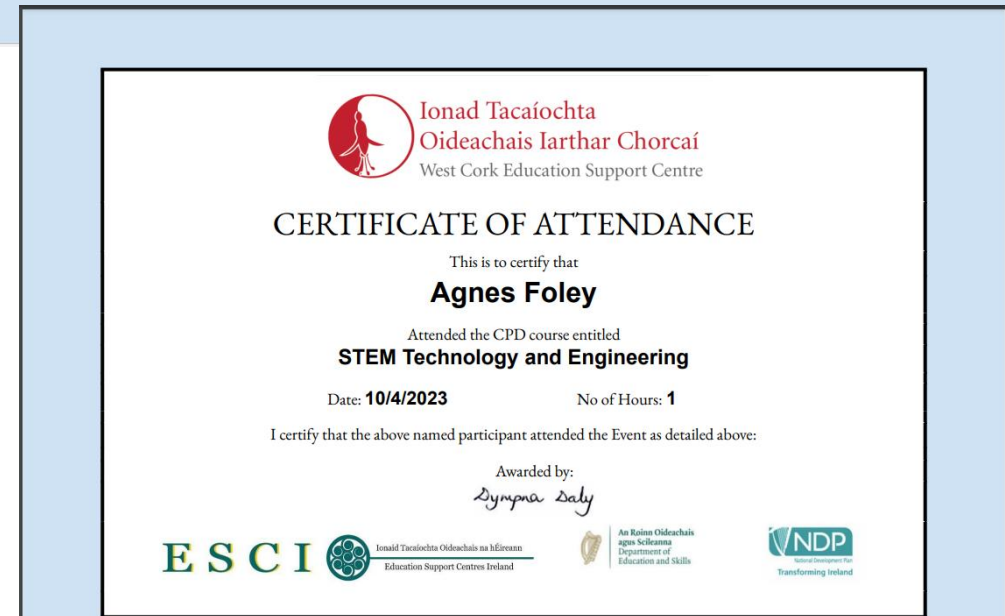




The Junior Room created straw rockets and observed how far they could travel.



Online CPD was undertaken to increase our knowledge, pedagogy and ideas bank.





Step 2: Technology

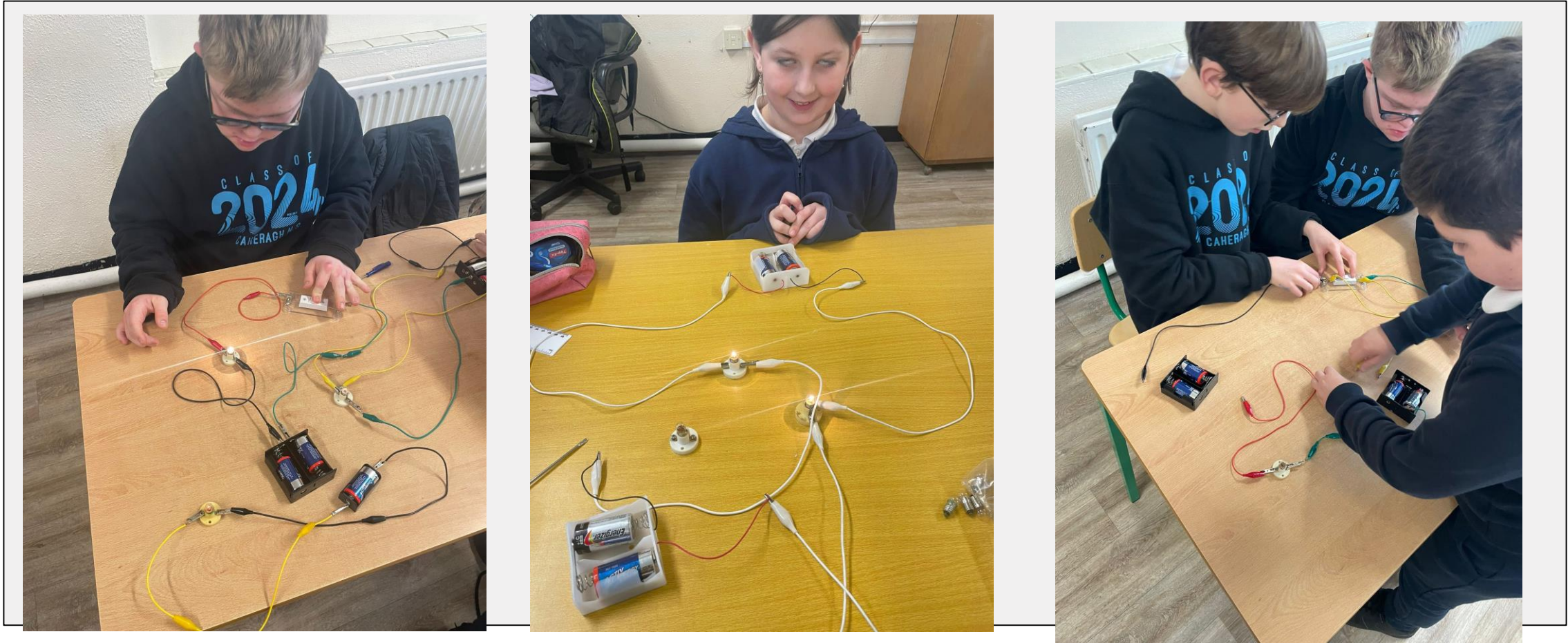


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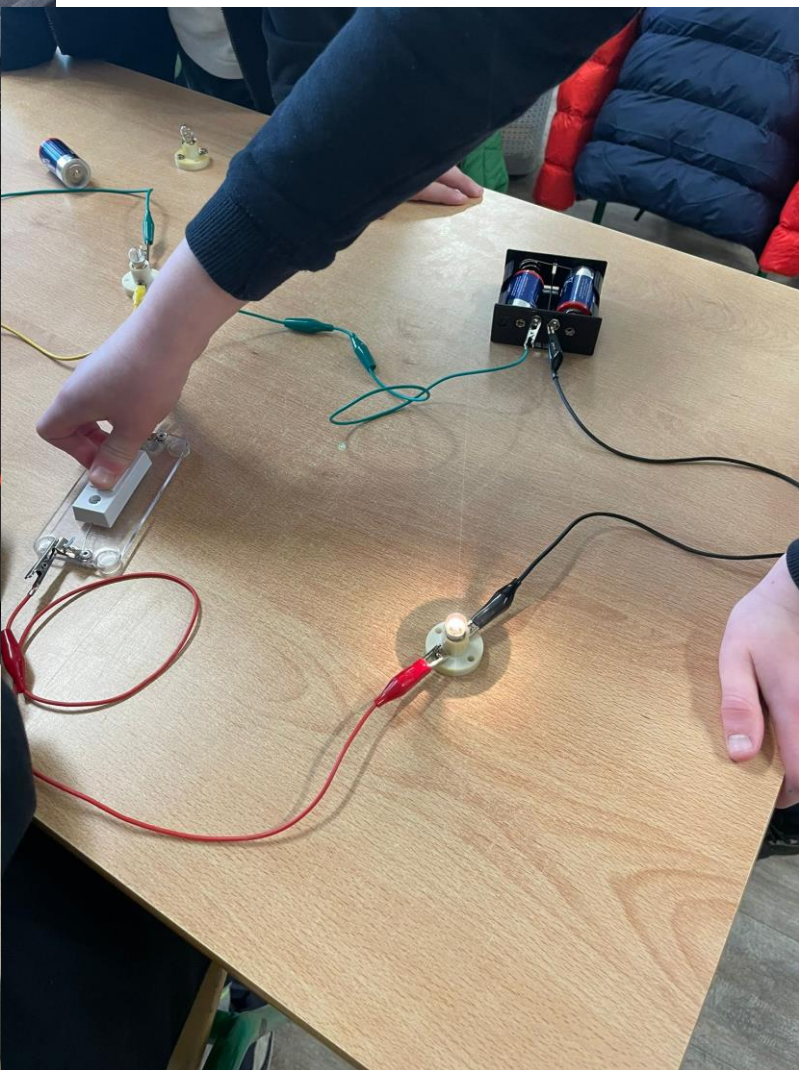
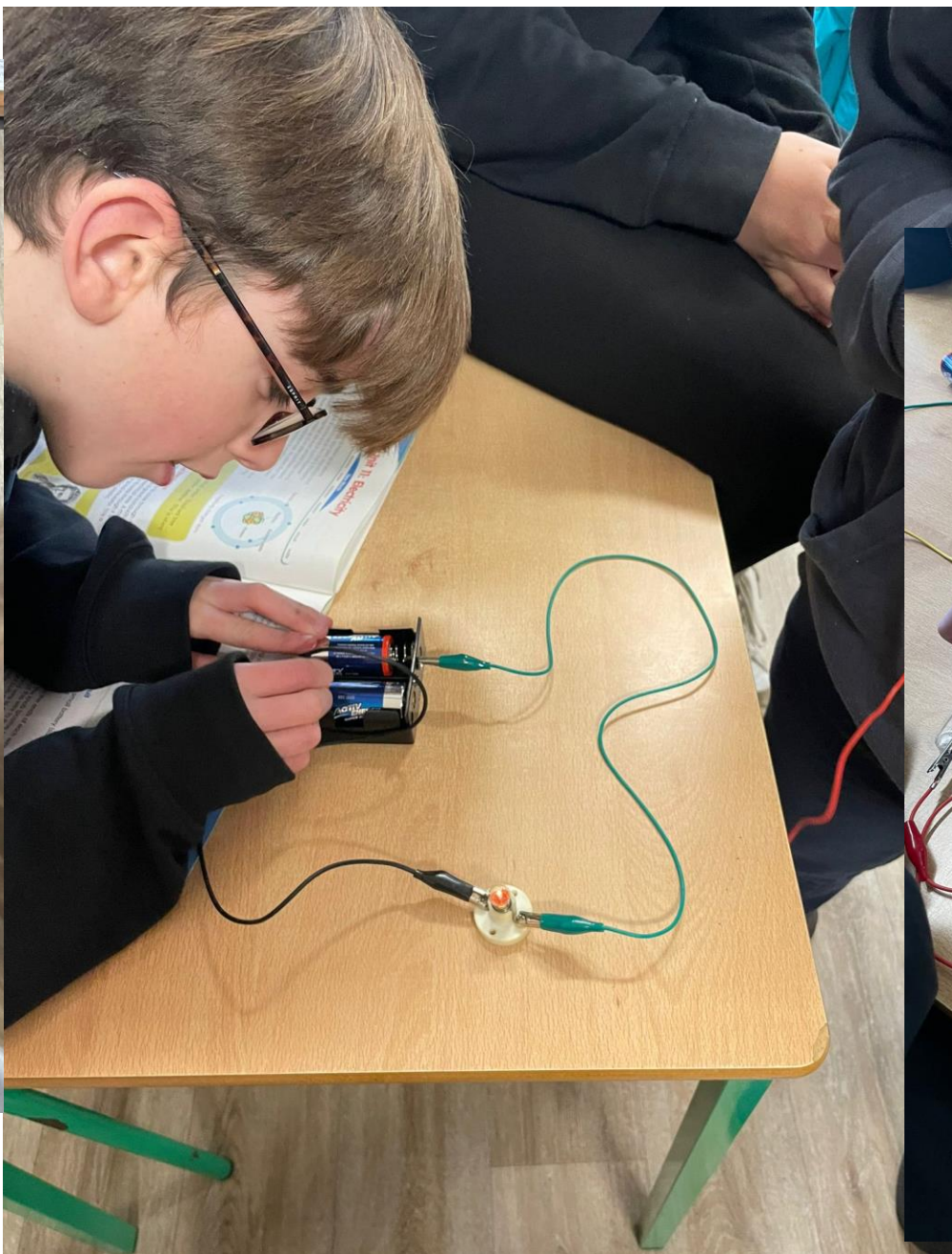
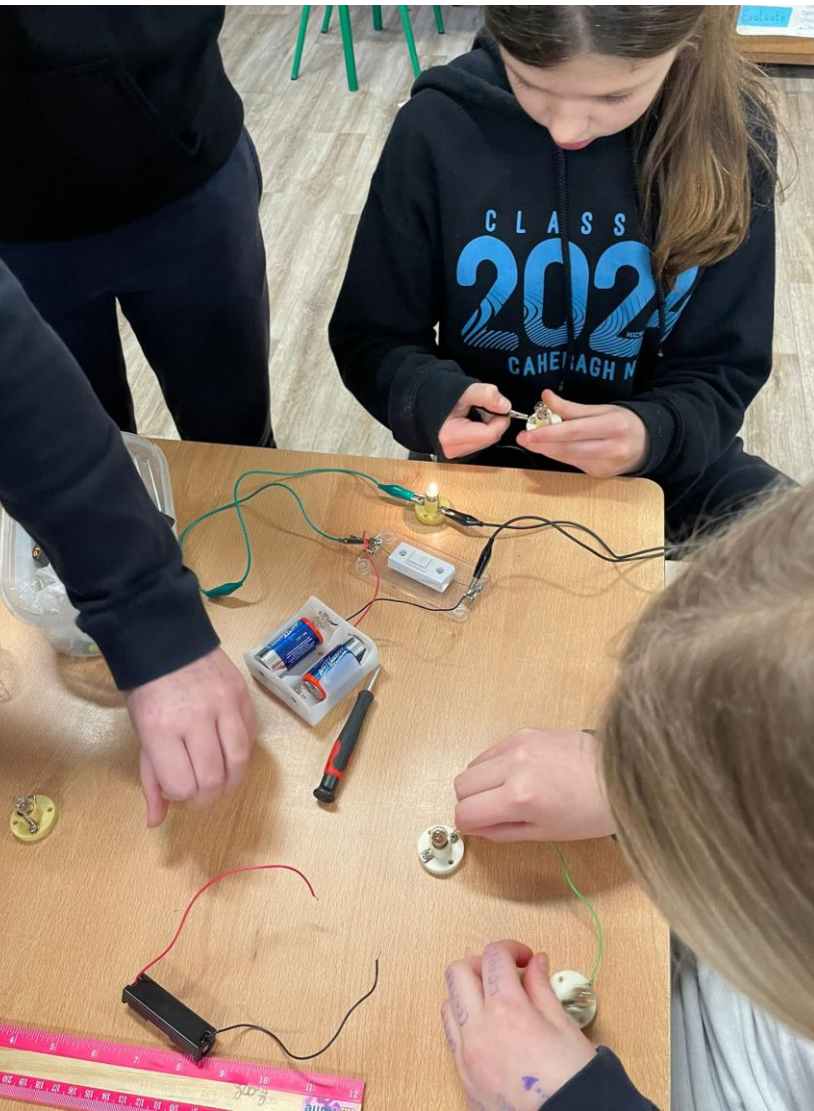
Step 2: Technology

Electr



The Senior Room developed some electric circuits.





Electric circuits



The Middle Room investigated electrical circuits and static electricity.





Electric circuits, insulators and conductors



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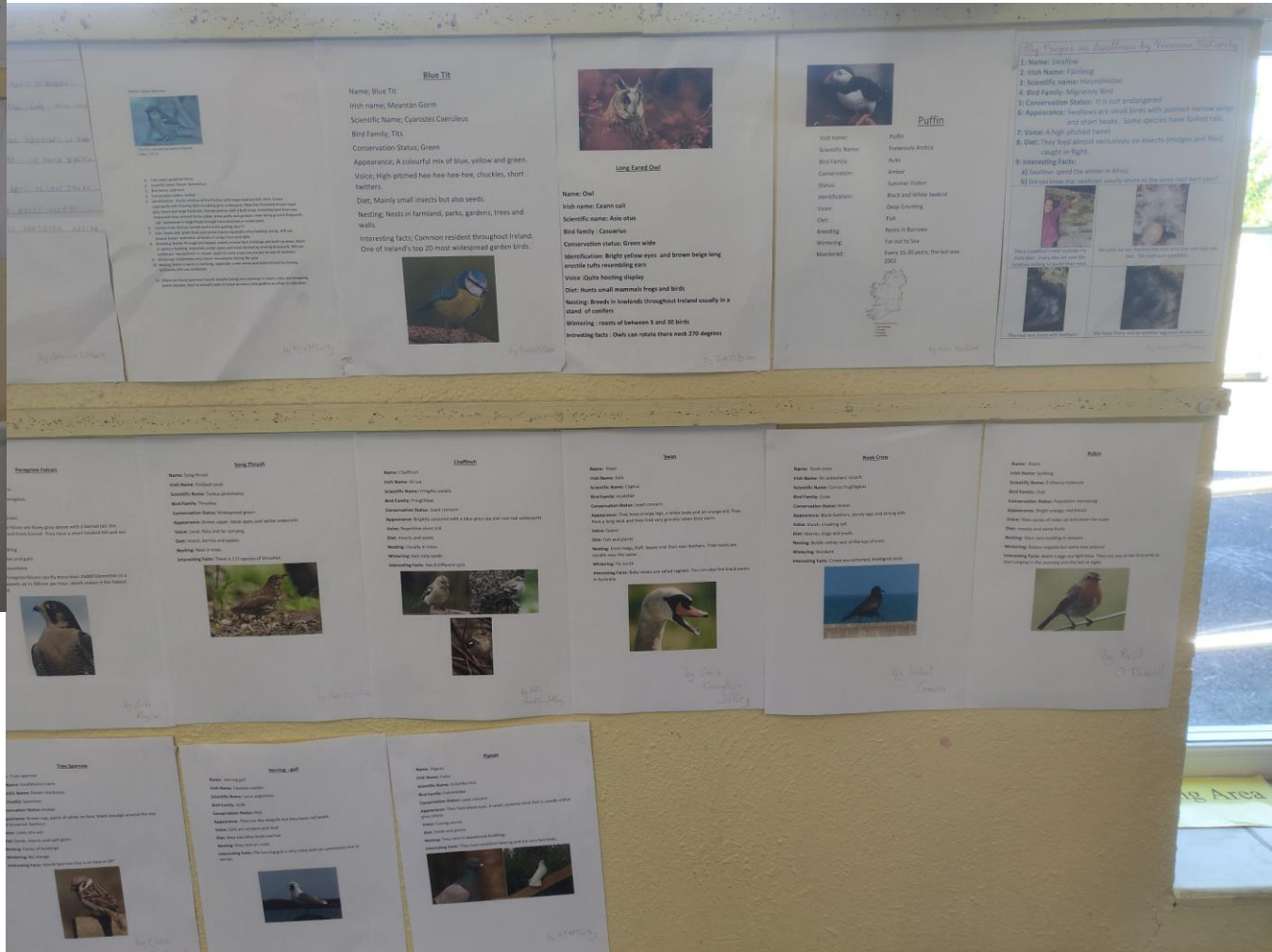
Step 2: Technology

Game based learning through ICT



The Junior room engaged in game based learning using iPads





The Middle Room produced their projects in native Irish birds using their ICT skills. They were also encouraged to send in a video.

Monday's Targetboard



Leaderboard

<p>Junior Leader Board</p> <p>Caheragh NS (1634) Senior Room (Miss Minehane)</p> <p>Ballymana NS (1516) 4th Class Ballymana NS (Tom Hickey)</p> <p>Gaelscoil Chluain Meala (1255) Rang 6 (Caoimhe)</p> <p>Fourtowns Primary School (1041) P7 (Mr Bevington)</p> <p>Kealkill N.S. (775) 4th, 5th & 6th Class (Ms. Daly & Ms. Pyburn)</p> <p>st Patrick's legamaddy (598) Primary 6 (Mrs Russell)</p> <p>Castledrum NS (537) 3rd & 4th (Mr. Ryan)</p> <p>Glinsk N.S. (511) 3rd & 4th Class (Gráinne Nolan)</p> <p>St Teresa's NS (407) 5th Class (Mrs Farrell)</p> <p>Central Model Senior School (330) Ms. Farrell 5th (Ms. Farrell5th)</p>	<p>Senior Leader Board</p> <p>Dualla NS (3275) Mr. Manley Rang 5 & 6 Dualla NS (John Manley)</p> <p>Bushypark NS (3168) Ms. Raftery's 6th Class (Ms. Raftery)</p> <p>Glinsk N.S. (1018) 5th and 6th Class (Ms Phillips)</p> <p>Sacred Heart N.S. Sruleen (864) Sacred Heart, N.S. (Sruleen)</p> <p>S N Na Cille (618) 6th Class (Ms. Fitzgerald)</p> <p>St Malachy's BNS (566) 6th Class (Ms Murphy & Mr O'Connell)</p> <p>Dromclough National School (462) 4th, 5th & 6th (Ms. C. Dillon)</p> <p>Scoil Cholmcille Drumman (411) 4th, 5th and 6th class (Maura Martin)</p> <p>Knocknagoshel NS (345) Mrs Cusack's (Mrs Cusack)</p> <p>Ballinahinch N.S. (309) Mr.McGrath's 5th & 6th Class (Mr.McGrath)</p>
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The Senior Room used their computer skills on the I pads to successfully participate in the Target board competition

Step 3: Engineering



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Step 3: Engineering *Engineering Week*

- Engineering Week
- Resources at
- <https://www.engineersireland.ie/Schools/Engineers-Week/Primary-Schools>
-
- Engineering Through the Ages
-
- Engineering in our Lives
-
- Engineering Colouring Sheets
-
- Engineering Activities
-

This is our Engineering Week Poster. The Middle Room made some exciting engineering projects for Engineer's Week this year





Building a bridge with triangles



Building an emergency shelter



Constructing a confetti launcher





Putting together a Ferris wheel



Making bird feeders of different designs from recyclable material





Explaining the Egg Drop. Building a crane with a pulley.





Designing a a rocket that would launch.





Building a Lego zip-line.
Testing a bridge.





The Senior Room focussed on designing and building bridges with everyday items.





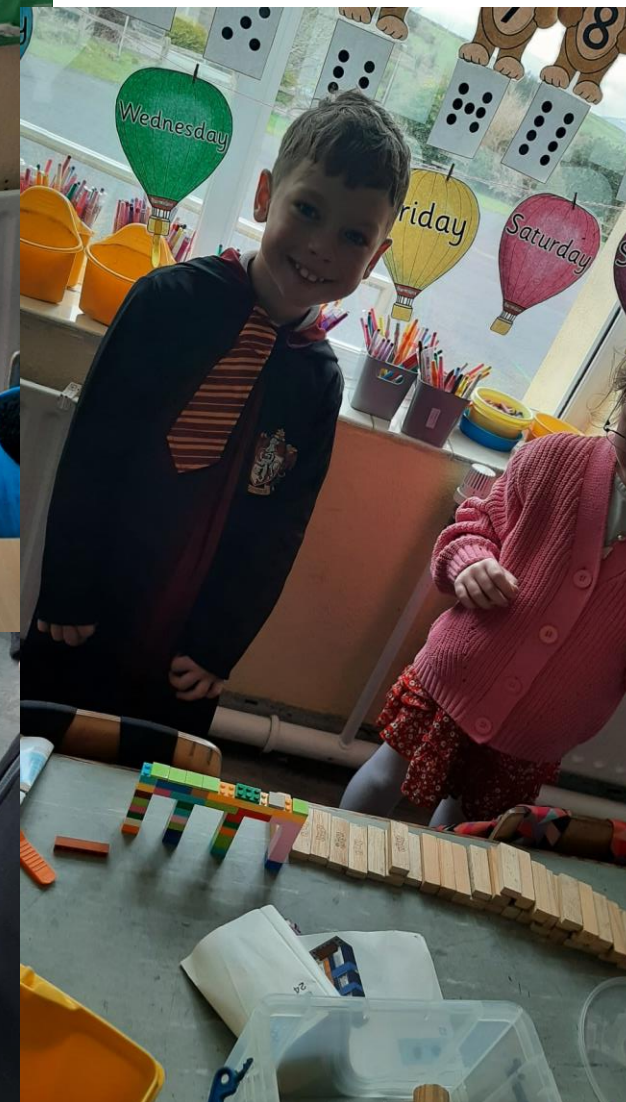
Designing and building bridges.





The Junior Room worked hard to build bridges from different materials. They then tested how strong their bridges were.

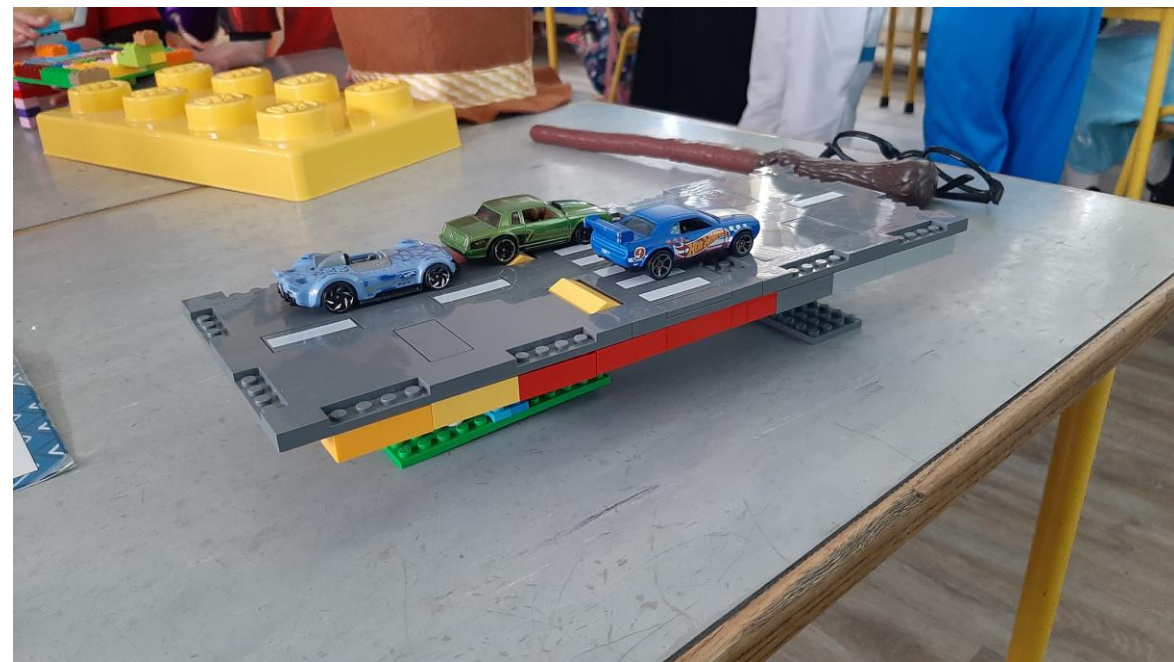




Building and testing bridges



Building and testing bridges



Building and testing bridges



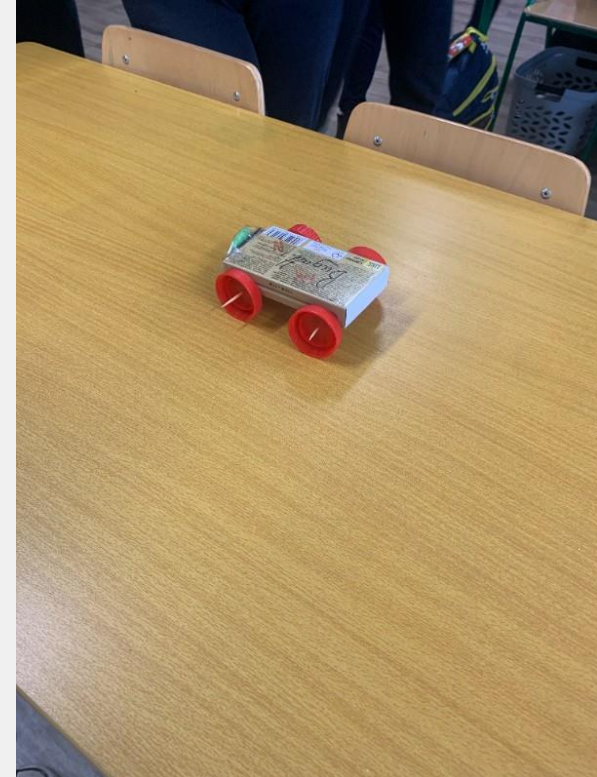
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Step 3: Engineering

Plan, design, make, build projects



Plan, design, build
and make a water
pump and a toy car.





Plan, design, build and make a catapult and a bridge.



Plan, design, build and make Lego creations.





Step 4: Maths



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Maths Week Activities

- 14th – 22th October
- Caheragh NS
- www.mathsweek.ie

Target Boards - Senior Room- All week

Maths Quiz- Middle Room- 19th October 11am

Maths Maze- Junior Room- All week

Maths Week poster

Some activities classes will participate in;

Maths trails

Maths Puzzles e.g. Matchsticks/ Jumping Chips/Sliding Coin Game/Room Maze

Maths Problems e.g. Emoji Equations

Maths Eyes Photo Competition

Mathematicians by County

RTE Podcast People and Maths

Maths Art e.g. Shape art

Maths Games e.g. Pig Game/Shape Memory Game



Junior Leader Board

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Senior Room (Miss Minehane)

Ballymana NS (1516)
4th Class Ballymana NS (Tom Hickey)

Gaelscoil Chluain Meala (1255)
Rang 6 (Caoimhe)

Fourtowns Primary School (1041)
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Kealkill N.S. (775)
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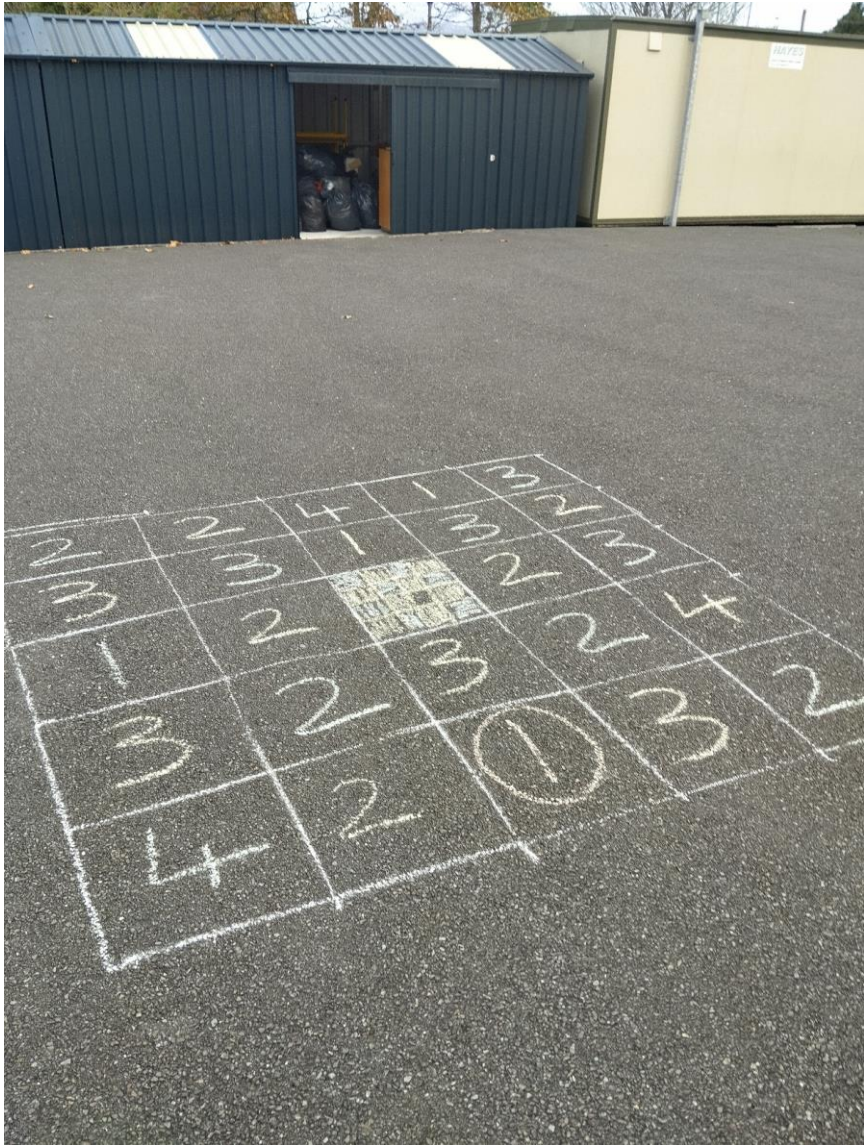
Knocknagoshel NS (345)
Mrs Cusack's (Mrs Cusack)

Ballinahinch N.S. (309)
Mr.McGrath's 5th & 6th Class (Mr.McGrath)

The Senior Room participated successfully in the Target Boards for Maths Week



The Middle Room participated in the Maths Week Quiz



The Junior Room and other classes used the Maths Maze during lunch time.



Maths puzzles were very popular, including the Coin Sorter puzzle



A Solitaire type puzzle involving cubes was very interesting

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Step 4: Maths

Maths Trail



A Halloween Maths trail was very popular





Halloween Maths trail



Halloween Maths Trail



Halloween Maths trail



Halloween Maths trail

Maths Trail 2023

1. What time is it now? _____
1. Who has the longest first name in your class? _____
1. Multiply (or add) the number of boys and girls in your class? _____
1. How many chair and table legs are there in the classroom? _____
1. Find half of this number? _____
1. What is the weight of a white board marker? _____
1. If everyone in the room paid 50c to enter how much money would you make?

1. Find a circle in your classroom, name it? _____
1. Find parallel line in the classroom, name them? _____
1. Face the clock, make a quarter turn to your right, what do you see? _____
1. How wide is the door in centimetres? _____
1. How many tennis balls are in the PE shed? _____
1. Find a 3D shape in the PE shed, name it? _____
1. Find parallel lines in the yard, name them? _____
1. Count how many window panes are at the front of the main school building? _____
1. How high are the bins in centimetres? _____
1. Find a rectangle in the yard, name it. _____
1. Find a number in the yard, multiply it by 5? _____
1. Subtract the amount of children in Junior, Senior and 1st class from the amount of children in 4th, 5th and 6th class? _____
1. Find a pattern and draw it?



We used Maths in a wide variety of activities to measure length, temperature, weight, and capacity as well as time etc.



Step 5: Show and Tell



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Step 5: STEM Show and Tell



The Middle Room hosted an Engineering Show during Engineers' Week to exhibit and explain their Engineering projects.





Engineering Show demonstrations



The Junior Room enjoyed the show





Senior Room enjoyed the show





Engineering Show





Engineering show