

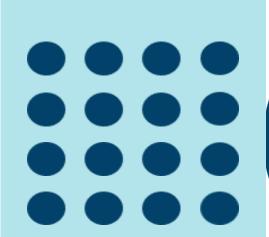
#### **Curious Minds Award 2022/23**

Log of Evidence

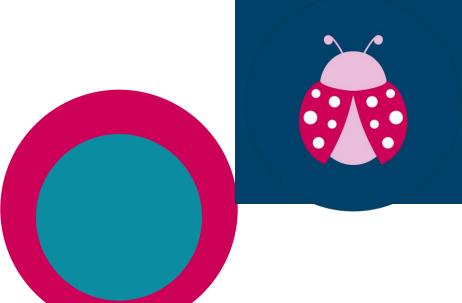
**Gold Award** 

Scoil Fionntáin Naofa, Shanahoe, Abbeyleix







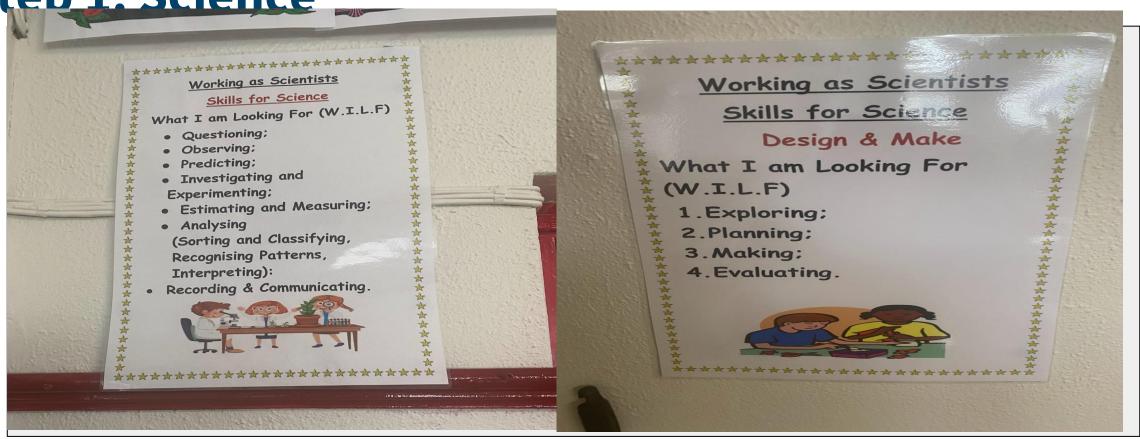








Step 1: Science Skills and WILF



We created anchor charts for our classrooms this year with the skills from the Science Curriculum outlined on them to ensure that we are actively using a range of Science related skills during different lessons, investigations and experiments. These form part of the 'Success Criteria' or 'WILF' at the start of our Science lessons.



**Step 1: Science** *Living Things-Plants* 



5th & 6th Class planted containers with grasses and Winter bedding plants in the Autumn and they were ably assisted by a trainee gardener from our Sonas Class!





Step 1: Science Living Things-Plants



Pupils from the Senior Room planted up the new containers made from recycled materials outside the front gate of the school.





**Step 1: Science** *Living Things-Plants* 



The 'head gardeners' in 5th Class planted a Cherry Blossom Tree to replace a former tree that had to be removed.





Step 1: Science Living Things-Bulbs



The Senior Room planted yellow crocus bulbs as part of their participation in the 'The Crocus Project' to commemorate the children who list their lives in the Holocaust.





Step 1: Science Living Things-Trees



The pupils from the Sonas Class went on a tree hunt in the school grounds for 'National Tree Day'. They then created lovely Autumn fingerprint trees.





Step 1: Science Living Things-Trees



The pupils from the Junior and Middle Rooms did a collaborative tree hunt in the school grounds on 'National Tree Day'.





**Step 1: Science** Living Things-Trees

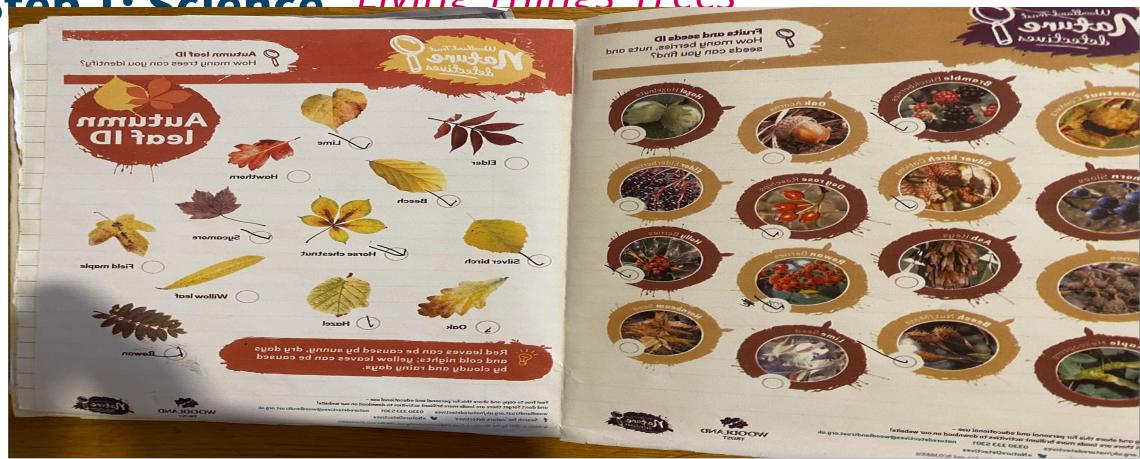


The Senior Room went on a 'Tree Hunt' around the village on 'National Tree Day'. They identified different species of trees from their leaves, nuts and fruits. They used identification sheets from the 'Woodlands Trust' to assist them with the task at hand.





Stan 1. Scionco Living Things-Trees



A pupil's leaf/tree hunt identification sheets from the 'Woodland Trust'.





**Step 1: Science** Living Things-Trees

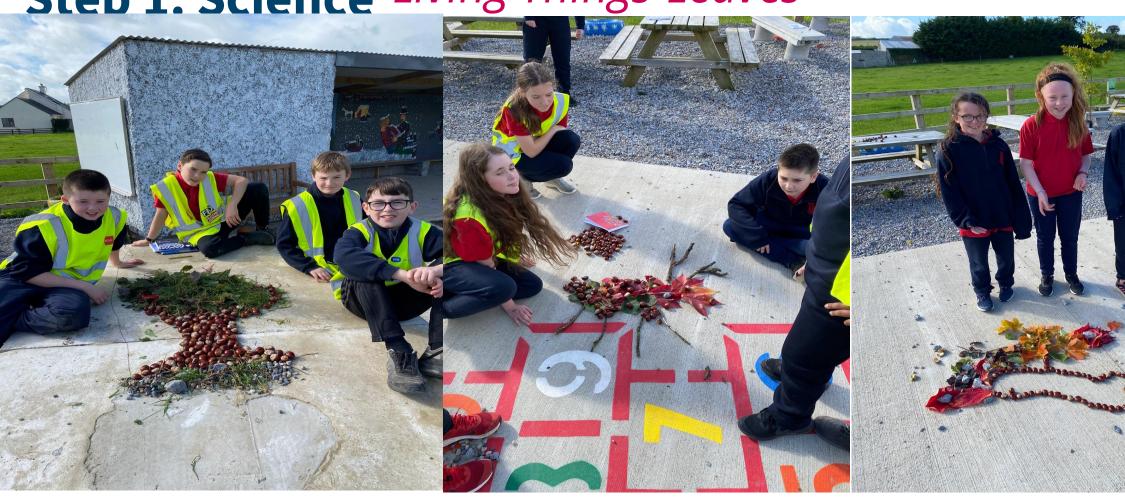


During their walk on 'National Tree Day', the pupils in the Senior Room also collected samples of leaves, nuts and fruits from the trees, hedgerows and from the ground underneath/around.





Step 1: Science Living Things-Leaves



Using the leaves, nuts and Autumn fruits that they had gathered, the pupils from the Senior Room created very imaginative designs. Can you work out what their creations are?!





Step 1: Science Living Things-Leaves



The pupils in the Senior Room then printed in an Autumn palette using the leaves that they had collected. Wonderful overprinting effects were achieved!



## CUTIOUS minds Discover STEM

### **Step 1: Science** *Living Things-Heart*



The pupils in the Senior Room learned how to take their pulse. They took their pulse prior to undertaking exercise and after undertaking exercise and they then compared and contrasted their pulse rates (i.e pre and post exercise). They then discussed the impact of exercise on pulse rate.



# CUTIOUS minds Discover STEM

#### **Step 1: Science**

#### **Biodiversity**



We have developed a biodiversity area/'Bee Garden' in an area of the school grounds this year. This is being done in tandem with our application for a Green Flag for Biodiversity this year. This area was planted with various varieties of wildflower seeds in mid April 2023. We incorporated our existing 'Bug Motel' into this space. We hope that it will become 'pollination central'. Many thanks to parent volunteer and Green Schools committee



# CUTIOUS minds Discover STEM

## **Step 1: Science** *Living Things-Birds*



The pupils in the Senior Room fed the birds during the Winter months. They regularly observed what birds were coming to the feeding stations and they used the excellent resources from 'BirdWatch Ireland' to help them to identify the different species of birds.



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#### **Step 1: Science**

#### Design and Make



The pupils in the Senior Room Designed and Made bird feeders using recycled materials.



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### **Step 1: Science** *Living Things-Birds*

Name: Gold Finch  My Fact-file on a Garden Bird	
Name of bird: Gold Finch  Irish name: Lasain Chaille  Bird family: Finches  Status: Stable  Identification: Adult males are bright yellow with a black forchead in spring and early Surveys. They also have black wings with write markings; and white patches above their tail and beneath. Adult females are duller yellow beneath but olive above. In writer they are more brad in colour.  Voice: high pitch and cherpy.	Diet: Gold Finch like seed from Frowers, insects and Invertebrates  Breeding: The male displays brightly coloured plumage during the breeding Season to attract a mate males chase after  Semales.  Wintering: in winter gold funches aroun together to form florks of up to 40 birds  Monitored by: country-old bird survey and conden  Bird Survey  Any other facts/information: In the early 18th century the word Coldfinch was used as slang for a very longy beats than preader

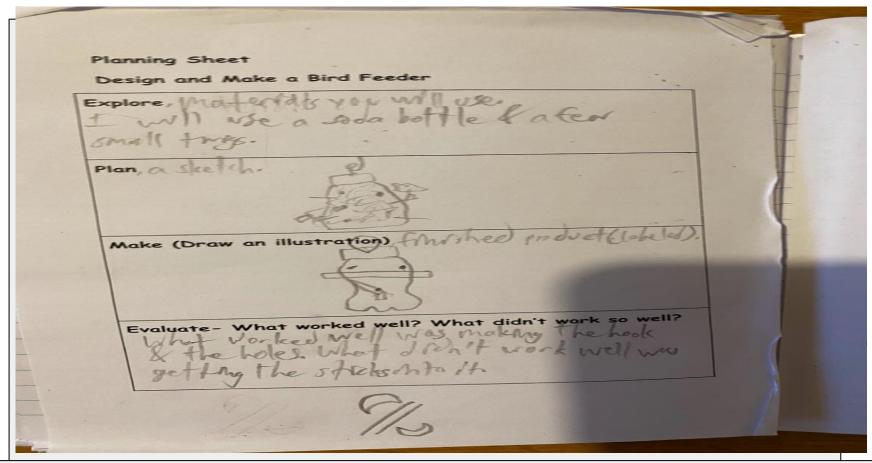
A pupil's factfile on a Garden Bird namely the Goldfinch (An Lasair Choille).



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#### **Step 1: Science**

#### Design and Make



Planning sheet for Designing and Making a Bird Feeder from Recycled Materials incorporating the Design and Make Skills of 1. Exploring 2. Planning 3. Making 4. Evaluating



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### **Step 1: Science** *Energy and Forces-Light*

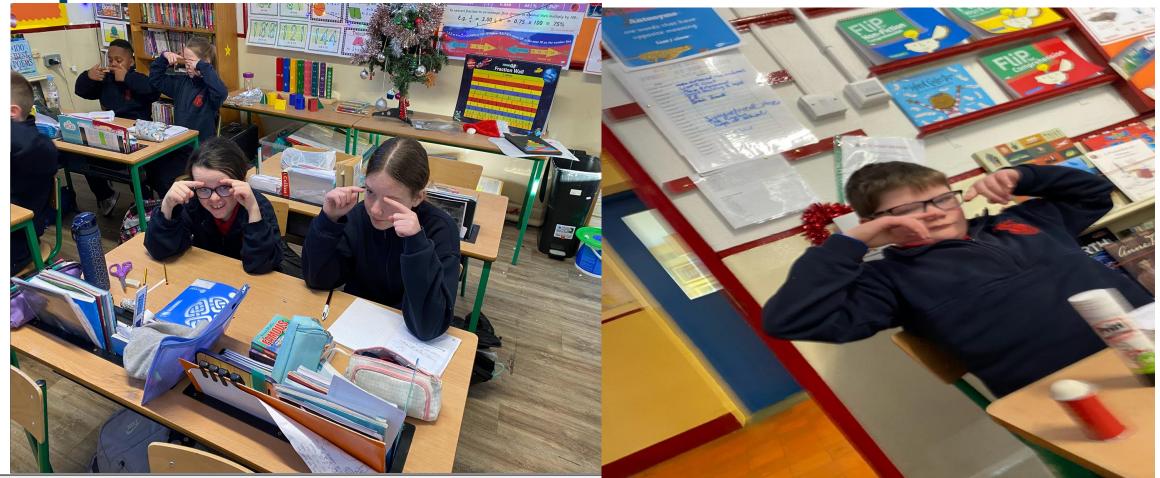


As part of their unit of work on the strand unit Light, the pupils in the middle room designed and made their own kaleidoscopes. They now see the world in a whole new light!





Step 1: Science Energy and Forces-Light



Pupils in the Senior Room conducted the experiment 'Floating Finger' to determine how light affects how we perceive things.





Step 1: Science Energy and Forces-Light

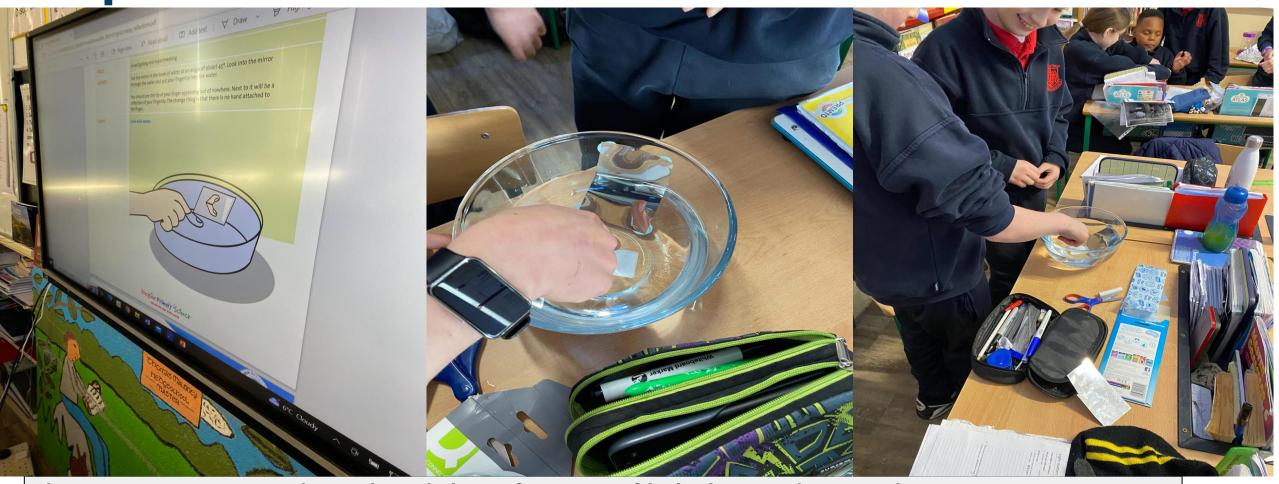


The pupils in the Senior Room enjoyed exploring the <u>reflection</u> of light using tinfoil!





### **Step 1: Science** *Energy and Forces-Light*

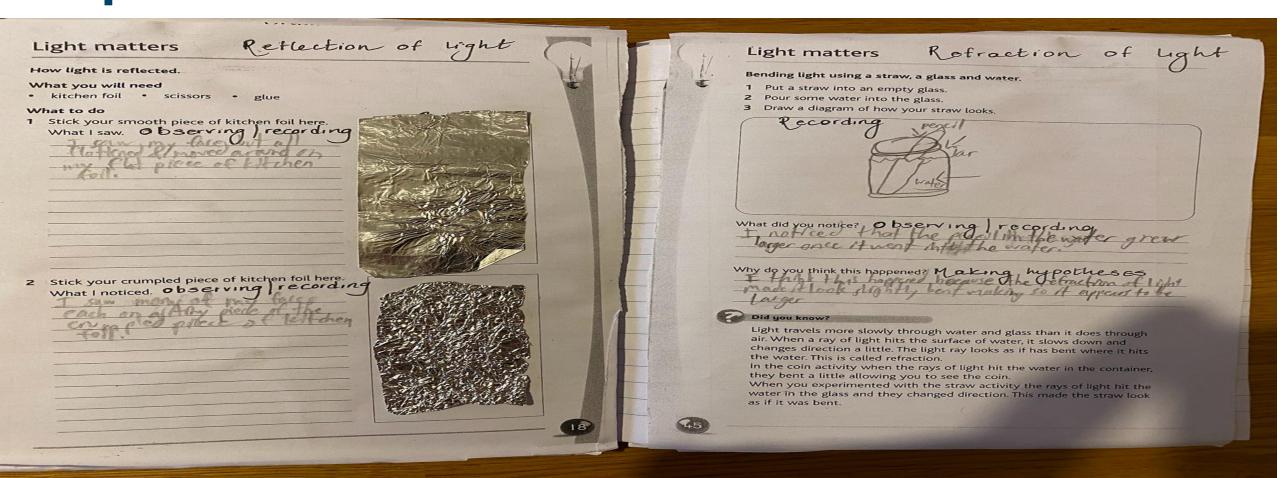


The Senior Room pupils explored the <u>refraction</u> of light by conducting the investigation 'Creepy Reflections'. Refraction is the effect of light travelling through water.



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### **Step 1: Science** *Energy and Forces-Light*



A pupil's recordings of their investigations/experiments on the reflection and refraction of light.





**Step 1: Science** *Energy and Forces-Light* 

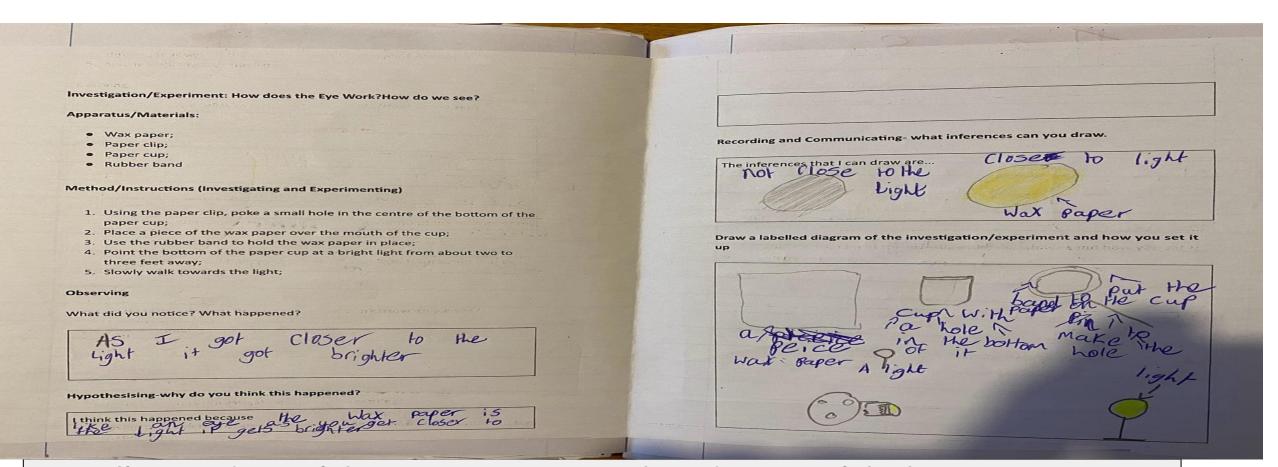


The Senior Room pupils explored the **Spectrum of Light** by creating rainbow spinners.





### **Step 1: Science** *Energy and Forces-Light/The Eye*



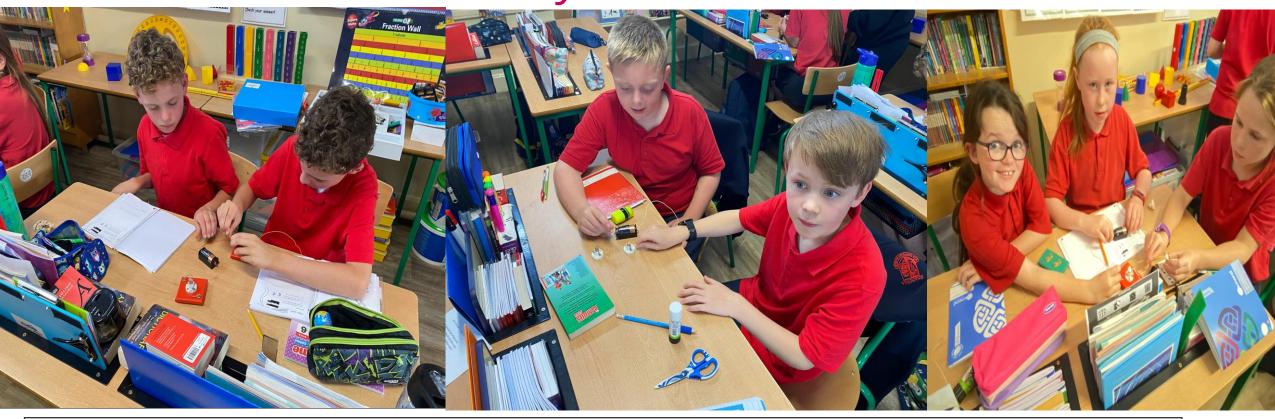
A pupil's recordings of their experiment to make a diagram of the human eye using wax paper, a paper cup and rubber band.



# CUTIOUS minds Discover STEM

### **Step 1: Science** *Energy and Forces-*

**Electricity** 



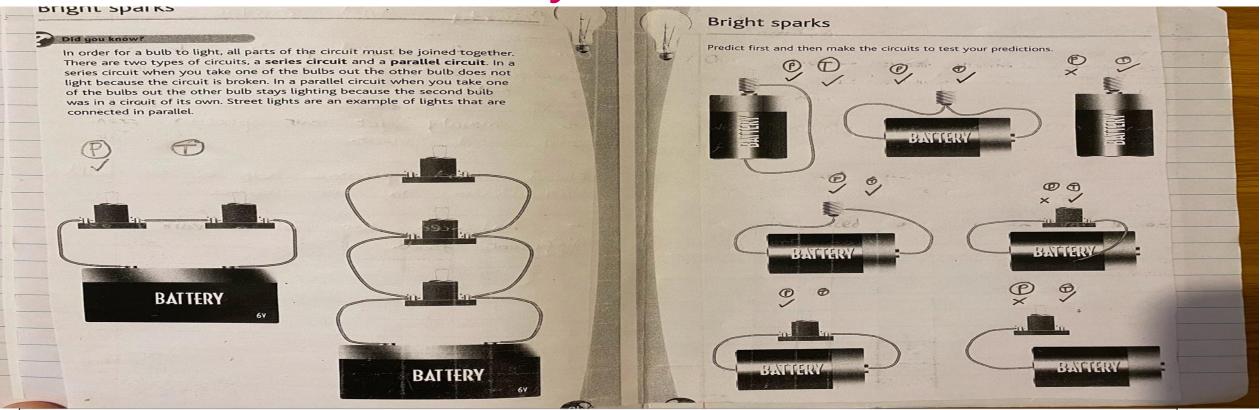
The pupils in the Senior Room explored different types of circuits during their study of the strand unit Electricity. They also created their own simple switches using different materials.



## CUTIOUS minds Discover STEM

### **Step 1: Science** *Energy and Forces-*

**Electricity** 



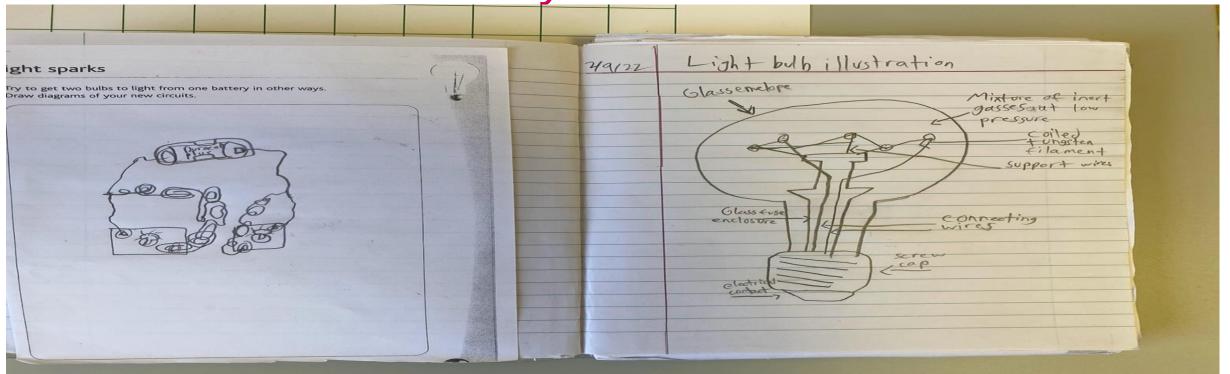
Pupils' recordings of investigations/experiments relating to circuits. They predicted which circuits would work and which wouldn't. They then tested and checked their predictions.



## CURIOUS minds Discover STEM

### **Step 1: Science** *Energy and Forces-*

**Electricity** 



Recording our findings: A pupil's drawing of a circuit that they constructed and a detailed diagram of a light bulb.





Materials



Within the Materials strand of the curriculum, the pupils in the middle room Designed and Made a Safety Jacket for an egg. They used the Design and Make skills of Exploring, Planning, Making and Evaluating. They then tested the efficacy of their designs by dropping the eggs from a height!



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Step 1: Science

#### Materials



The pupils in the Junior Room did great work in the strand Materials during 'Science Week'. They explored the effects of mixing different materials and they carefully observed the results. There were lots of fizzes and foams!





**Step 1: Science** *Environmental Awareness and Care* 



All pupils in the school participate in the 'Picker Pals' Environmental Awareness and Care initiative throughout the year.





**Step 1: Science** Environmental Awareness and Care



Environmental and altruistic work as part of the 'Picker Pals' initiative.





**Step 1: Science** 

Science Activity 1



During Science Week in November, the pupils in the Senior Room visited Birr Castle and Demesne for a very interesting and informative workshop on Biodiversity with scientist Dr. Catherine McGuinness.



## CUTIOUS minds Discover STEM

Step 1: Science

#### Science Activity 1



During the visit to Birr Castle, the senior room pupils did 'pond dipping' activities in the lake in the demesne to catch different species of pond life.





Step 1: Science Science Activity 1



They then worked collaboratively indoors to identify the different species that they had found using reference sheets.





Step 1: Science

#### Science Activity 2



All of the pupils in the school worked with Beth Murphy from the 'Heritage in Schools' scheme to create a Willow Dome using the surplus foliage from our existing Willow tunnel. The excess foliage that was cut from the tunnel had to be graded to check for suitability. Then a suitable site for the new Willow Dome had to be chosen.





Step 1: Science Science Activity 2



Very meaningful lines of integration were opened up with the Maths curriculum, as the pupils in the Senior Room had to work collaboratively to calculate the circumference of the circle for the base of the Willow Dome using the formula 2 Pi R (2x3.14x radius of the circle)





Step 1: Science Science Activity 2



The Finished Product in Use!

