



DPSM Log 2018-2019

**Scoil N. Fiachra
Illistrin**

2019/DSM/662



Discover Primary
Science and maths
www.primaryscience.ie

Science

Step 1

Junior Infants Planting Cress seeds



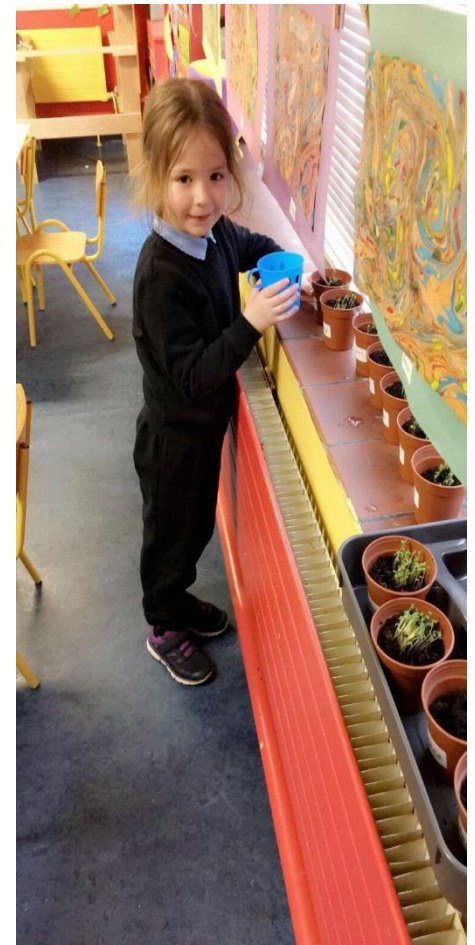
Step 1 – Science – Living Things



Planting Cress Seeds in Ms Mc Garveys Junior Infants



Step 1 – Science – Living Things



Planting Cress Seeds in Ms Stewarts Junior Infants



Step 1 – Science – Living Things

Vegetable Garden

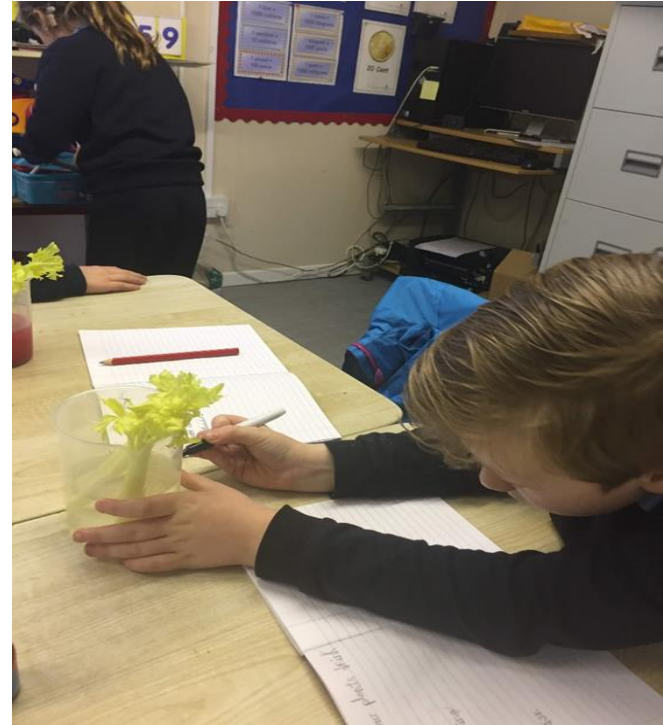
Pictured below are children from 1st, 3rd, 4th and 5th planting vegetable seeds. They planted rocket, radishes, peas, spinach and tomatoes. The children can't wait to see them in a few weeks



Step 1 – Science – Living Things

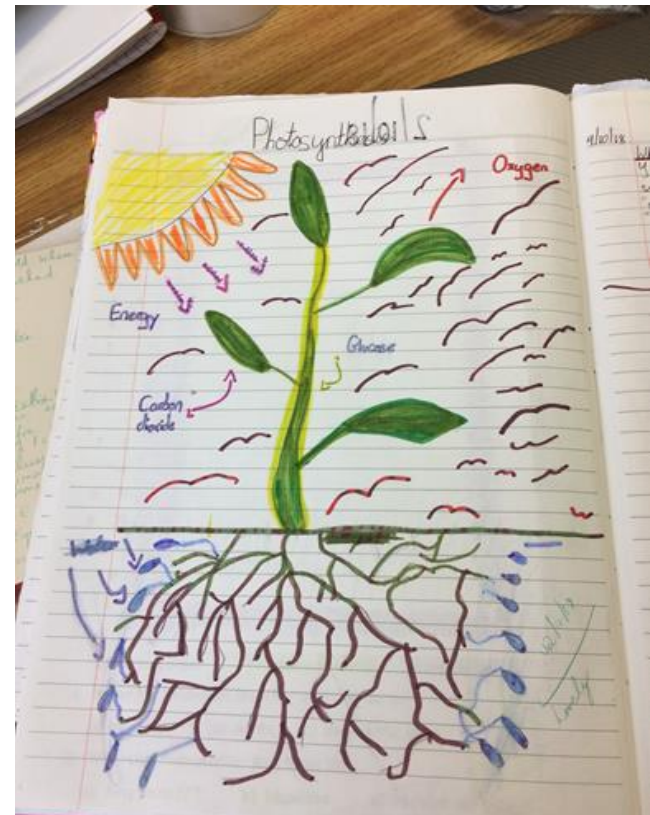


Rang 2 – Investigating how Plants Drink



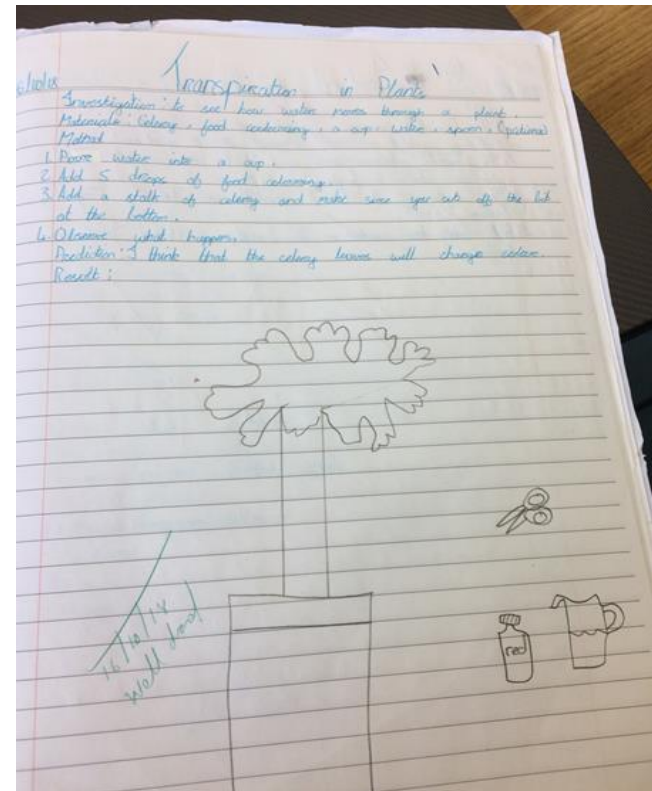
Step 1 – Science – Living Things

Rang 5 : Living Things: Transpiration in Plants



Step 1 – Science – Living Things

Rang 5 : Living Things: Transpiration in Plants

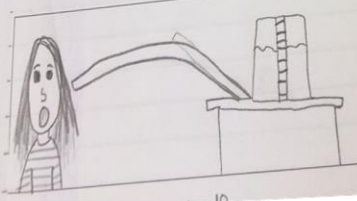


Step 1 – Science – Living Things

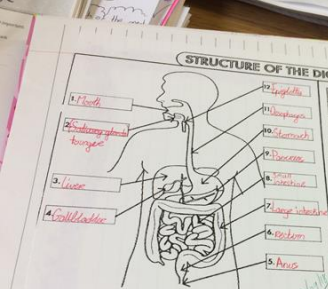
Human Life: 5th Class explore Breathing

28. Photocopyable Experiment Record Sheet

- Materials used: large bottle (min 2 litres), measuring jug of water, plastic tubing, large tube, measuring cylinder, masking tape, pen and some scissors (optional)
- What I wanted to test: I wanted to test my lung capacity
- What I did: I cut a large strip of tape to the large bottle from top to bottom, and I divided the strip into 20 equal markings. I filled a large tub with water to a depth of 10cm. I put the bottle to the top with water, inserted the tube into the tub, inserted 2 ends of the tubing into the neck of the bottle, took a deep breath and blew into the tubing until there is no air left.
- My prediction result: I think my lung capacity is 2L
- Drawing of my experiment



STRUCTURE OF THE DIGESTIVE SYSTEM



Structure	Function in Digestion
Mouth	Swallows the food
Esophagus	Long tube you swallow to take food down into the stomach
Stomach	Where food from the mouth goes to be broken down into smaller pieces
Small Intestine	Where the food is broken down into even smaller pieces
Large Intestine	Where the food is broken down into even smaller pieces
Appendix	Where the food is broken down into even smaller pieces
Rectum	Where the food is broken down into even smaller pieces
Anus	Where the food is broken down into even smaller pieces
Liver	Produces a fluid called bile
Gallbladder	Stores bile until you need it
Pancreas	Produces juices that help the digestion

1.) Label the diagram of the digestive system with the structures given in the table to the right.

2.) In the table, give the function of each of the structures you have labelled on the diagram of the digestive system.

The Lungs and Breathing

K	W	L
The lungs help you breathe in and out. Your lungs are like sponges. They take in lots of air. They produce oxygen. How many breaths do you take a year? How much air can your lungs store? How do the lungs work? Live! You might live longer than your lungs.	Why do you have 2 lungs? Why is it that you left lung? How do trees produce oxygen? How many breaths do you take a year? How much air can your lungs store? How do the lungs work? How fast can your lungs breathe?	Food + oxygen = energy. Your lungs have to have to stop taking particles. Lungs are like sponges. They take in lots of air. Diaphragm is the biggest muscle. When the Diaphragm goes out, your lungs breathe in. When the Diaphragm goes in, your lungs breathe out. There are about 600 million in your lungs.

Step 1 – Science – Living Things

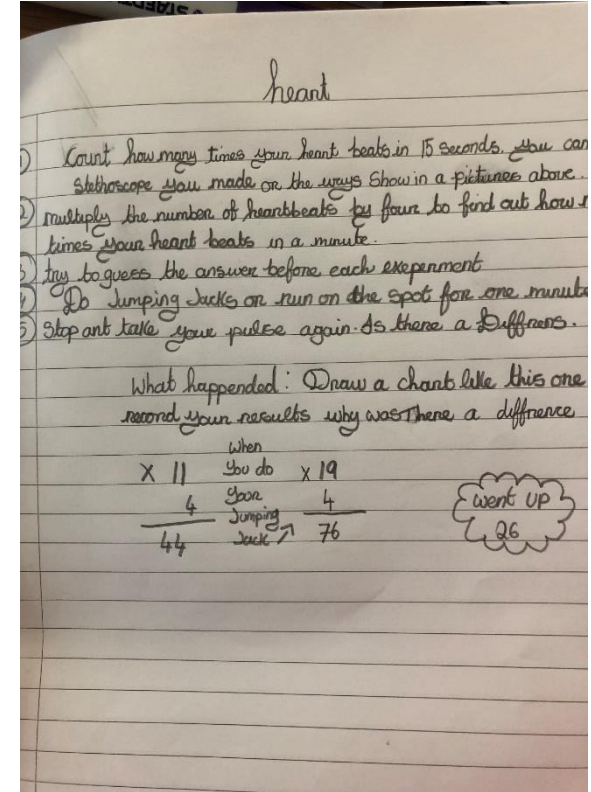
6th Class – Exploring Lungs Expanding & Contracting



Step 1 - Science – Living Things

Exercise Your Heart

Rang a 3 investigated heart rate before, during and after Exercise

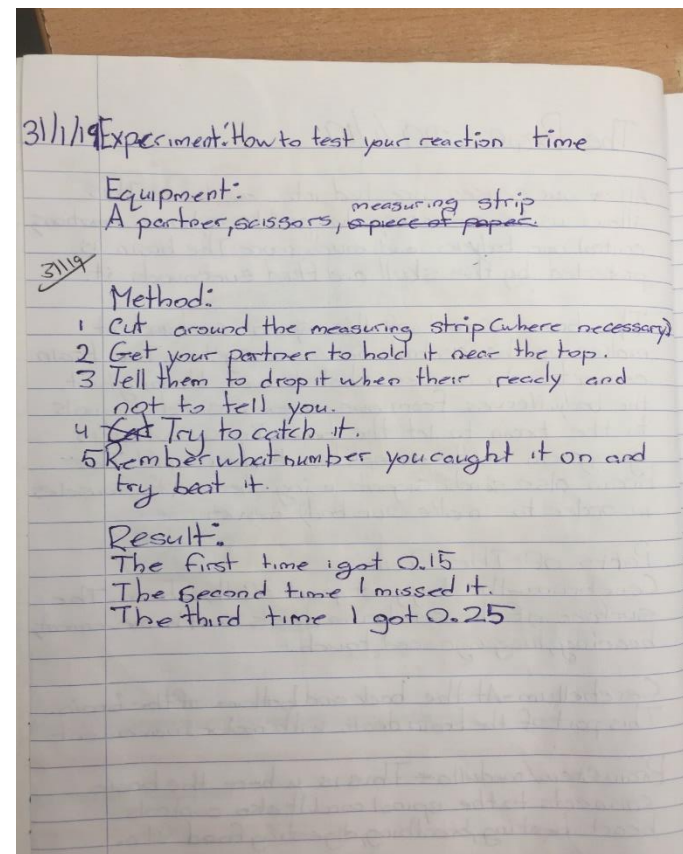
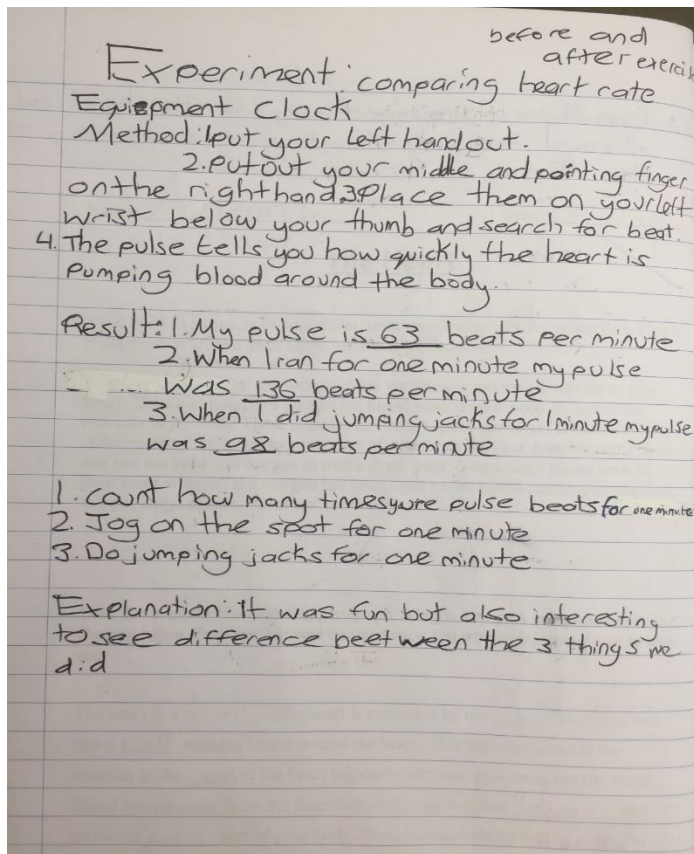


Maths
Using a stopwatch
Counting Pulse Rate

Step 1 – Science – Living Things

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Heart Rate & Reaction Time



Step 1 – Science – Living Things

Rang 6- Exploring Lungs



Step 1 – Science – Living Things

Rang 6 – Making a Lung

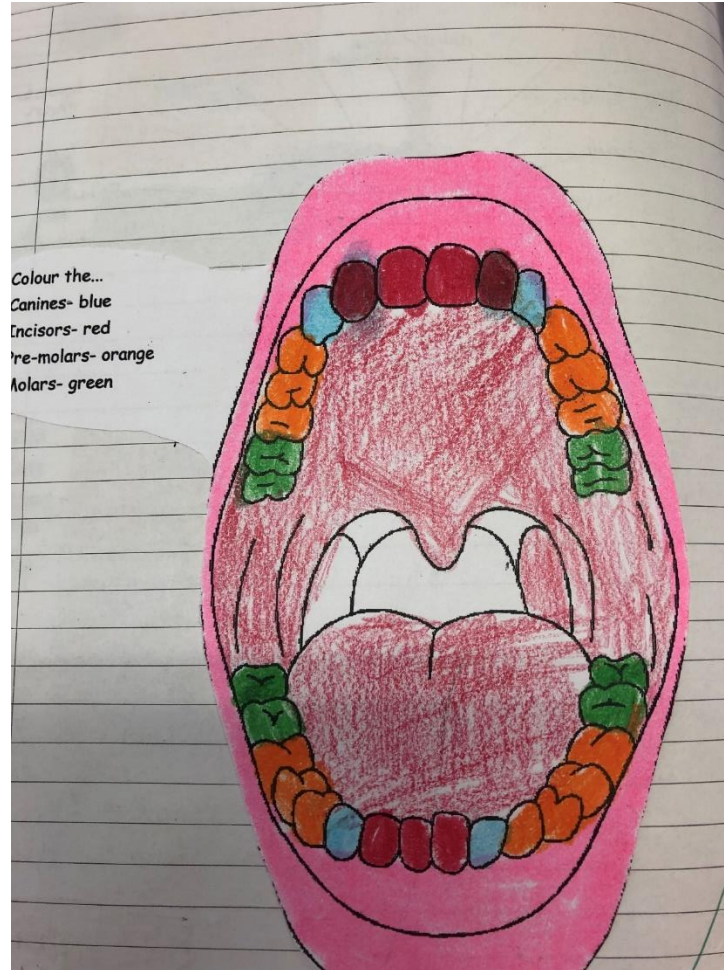


Step 1 – Science – Living Things

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Rang 3 Investigate 'The Teeth'

Step 1 – Science – Living Things



Rang a 6- Investigating the effects of Coke on Bones

Investigating the effects on coke(right) and water(left) on bones when they have been left in the liquids for 5 days.

To investigate the effect of coke on bones
Materials used: coke and a bone and a jar
Method: 1. Get a jar and put bones in it.
2. Pour some coke in the jar.
3. Leave it over night and see what happens the bone
Prediction: I think the bone is going to turn black and be really soft.
Result: The bone turned black
Explanation: The coke has lots of sugar so it turned the bone to black.

Step 1 – Science – Living Things

Rang a 3 visited Inch Island looking for Birds – SFI Discovery Centre



Step 1 – Science – Living Things

STEM Log Evidence, Scoil Naomh Fiachra
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Rang a 3 Bird Watching at Inch Wildfowl Reserve – SFI Discovery Centre



Step 1 – Science – Living Things

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Rang a 3 visited Ballyare Woods SFI Discovery Centre



Step 1 – Science – Living Things

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Rang a 3 visited Ballyare Woods

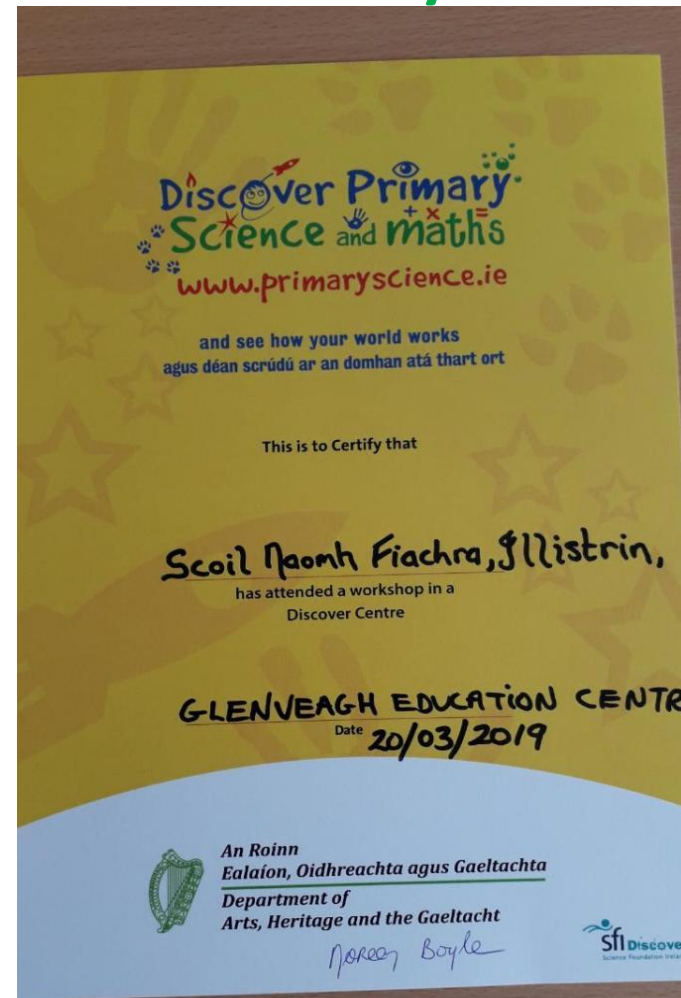


Step 1 – Science – Living Things

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1st & 3rd Glenveagh trip to Glenveagh National Park – SFI Discovery Centre



Materials

Junior Infants - Mixing Materials – Skittles Experiment

Investigating Colours.

We looked at how all the colours mixed together using skittles and water.?



Step 1 – Science – Materials

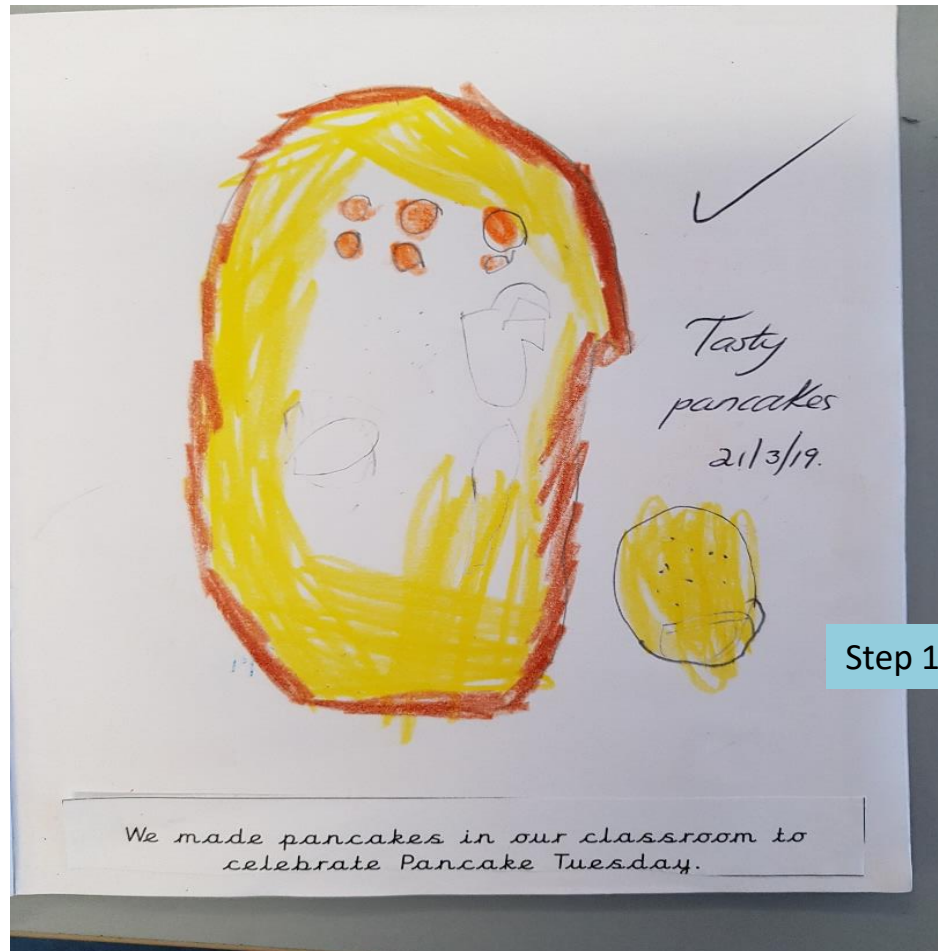
Properties and Characteristics of Materials: Dancing Raisins



Step 1 – Science – Materials



Junior Infants - Mixing Materials – Pancakes



Step 1 – Science – Materials

2nd Class - Magic Milk Experiment



Step 1 – Science – Materials

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Rang 2 - Which Material is the Best Insulator



Step 1 – Science – Materials

Rang 2 Materials and Change

Making Playdough



Best Materials for Cooking Utensils

- We did a bit of cooking to see which of these handles on our spoons were best suited for cooking. We put butter on each handle with hot water and tested which handle the butter melted on first. We learned about which materials were the best conductors or insulators.



STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

3rd Class – Material changes

- We had some fun in the snow, examining snowballs -at the same time learning about materials changing from solids to liquids to gases.



3rd Class choose a suitable raincoat

3rd Class have been learning all about Materials. We decided to design a suitable raincoat for our Lego men. We had already had gone around our school on a material tour outside. We then invented some crazy items made from unsuitable materials e.g a bed made out of chocolate, a car made out of ice and a bath made from paper.



Rang a 5

Testing if a material is acidic or alkaline



Step 1 – Science – Material

Rang a 5

Testing if a material is acidic or alkaline



Step 1 – Science – Materials

Rang a 5

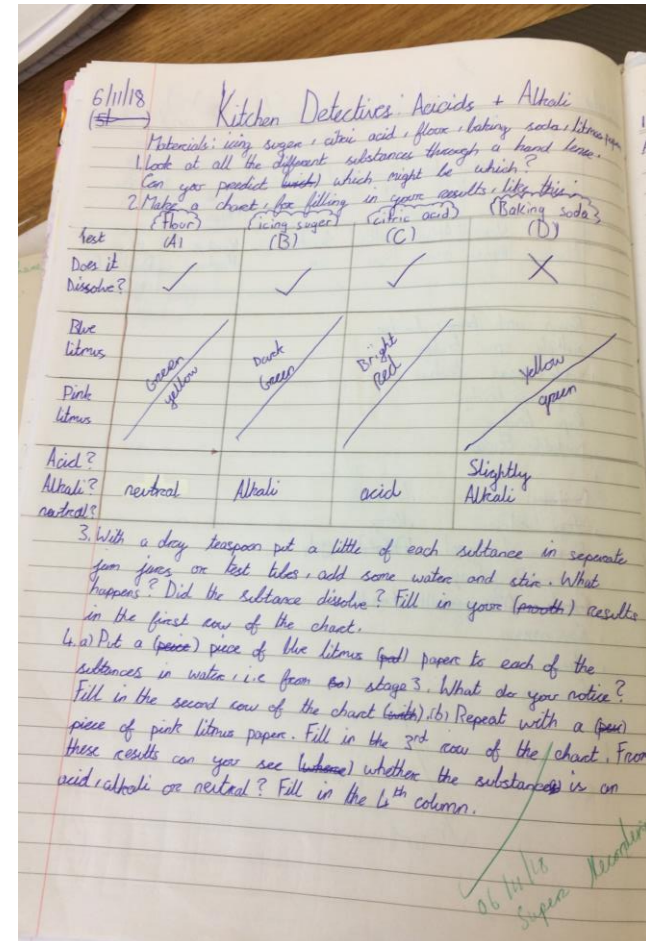
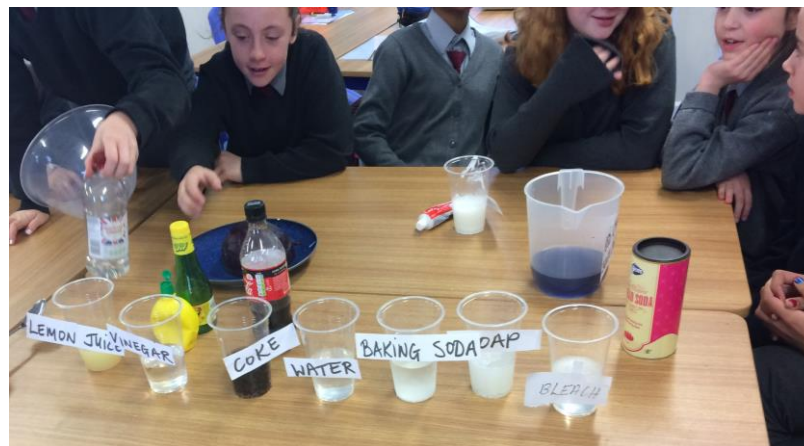
Testing if a material is acidic or alkaline



Step 1 – Science – Materials

Rang a 5

Testing if a material is acidic or alkaline



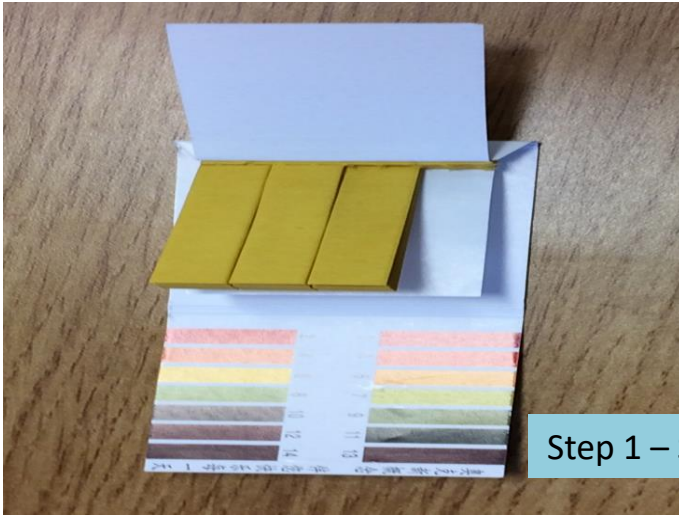
Rang a 5

Testing if a material is acidic or alkaline



Step 1 – Science – Materials

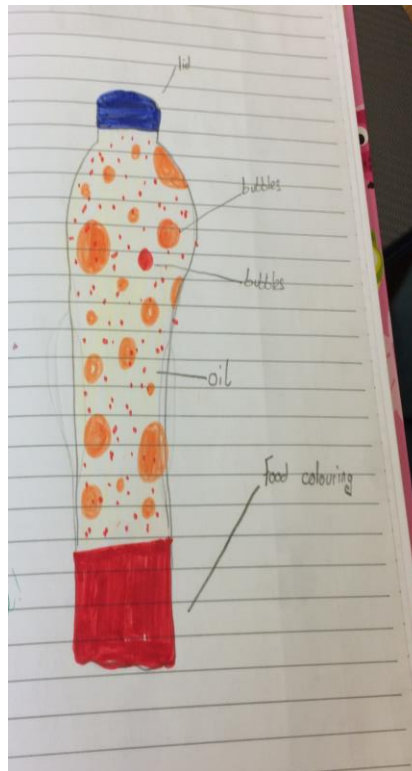
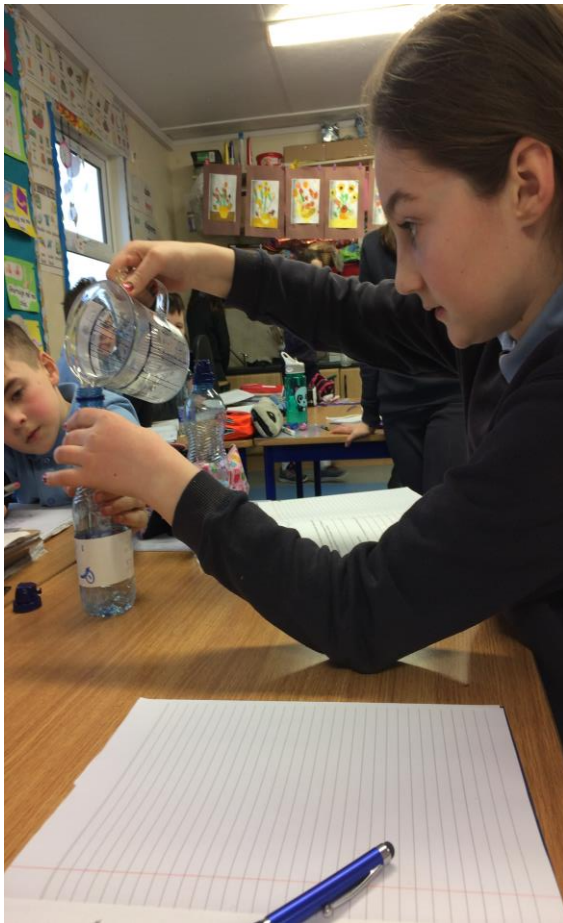
Rang a 5 explored the PH of different materials using litmus paper



Step 1 – Science – Materials



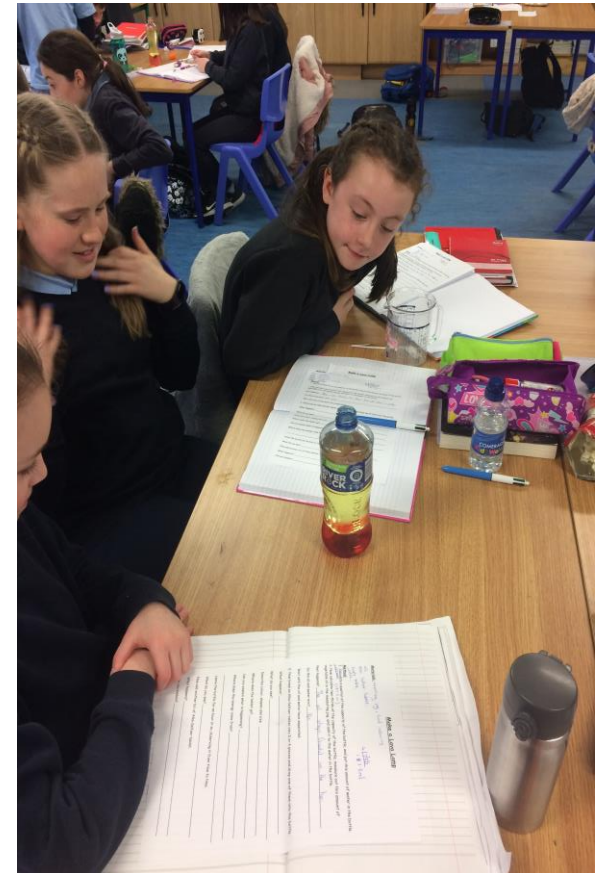
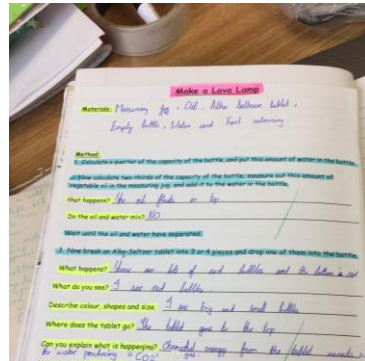
Rang 5 Making a Lava Lamp



Step 1 – Science – Materials



Rang a 5 - Make a Lava Lamp



Mr Gallagher's 5th Class Chemical Reactions



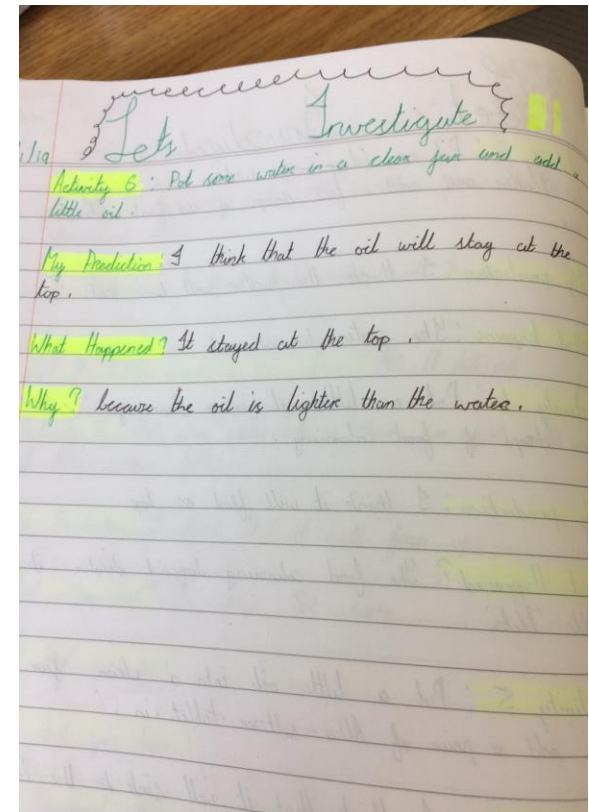
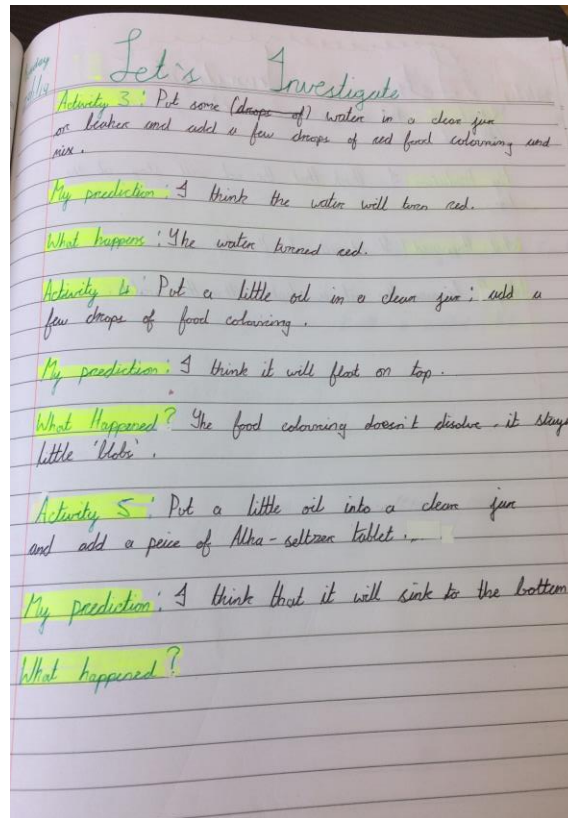
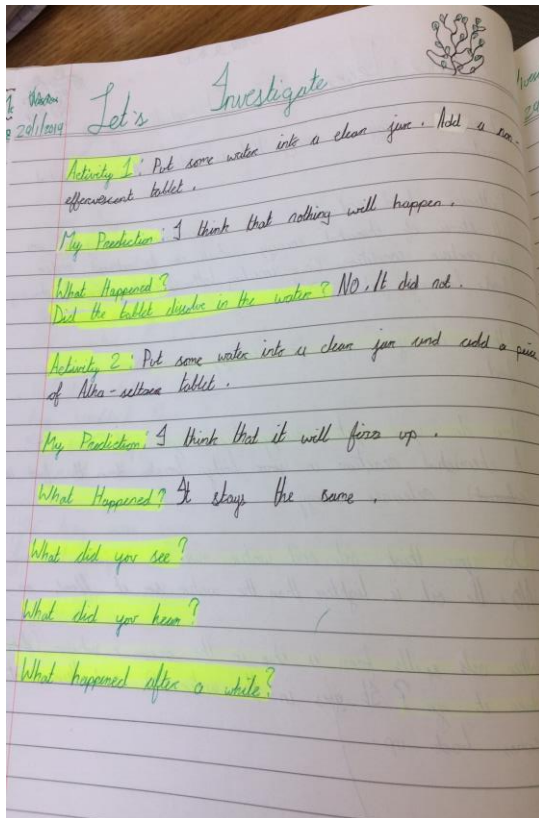
Step 1 – Science – Materials

Mr Gallagher's 5th Class Chemical Reactions



Step 1 – Science – Materials

Rang a 5 - Make a Lava Lamp



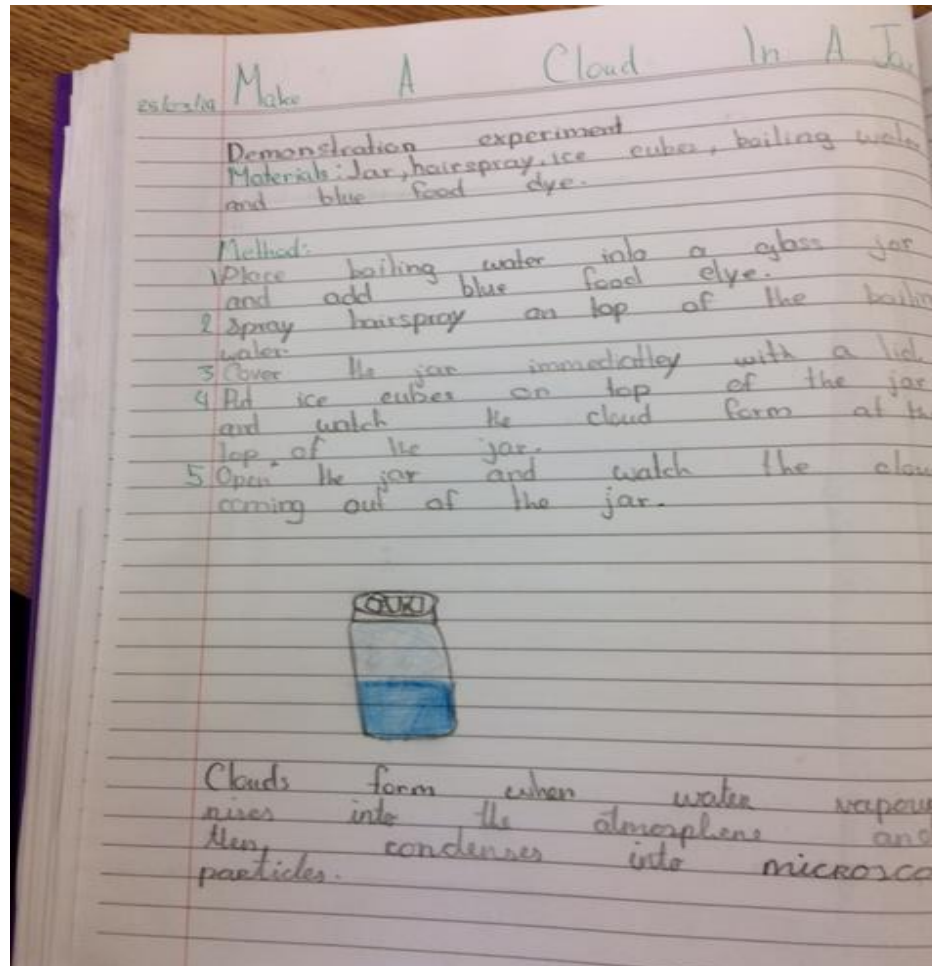
Step 1 – Science – Materials

Mr Gallagher's 5th Class Making a Cloud



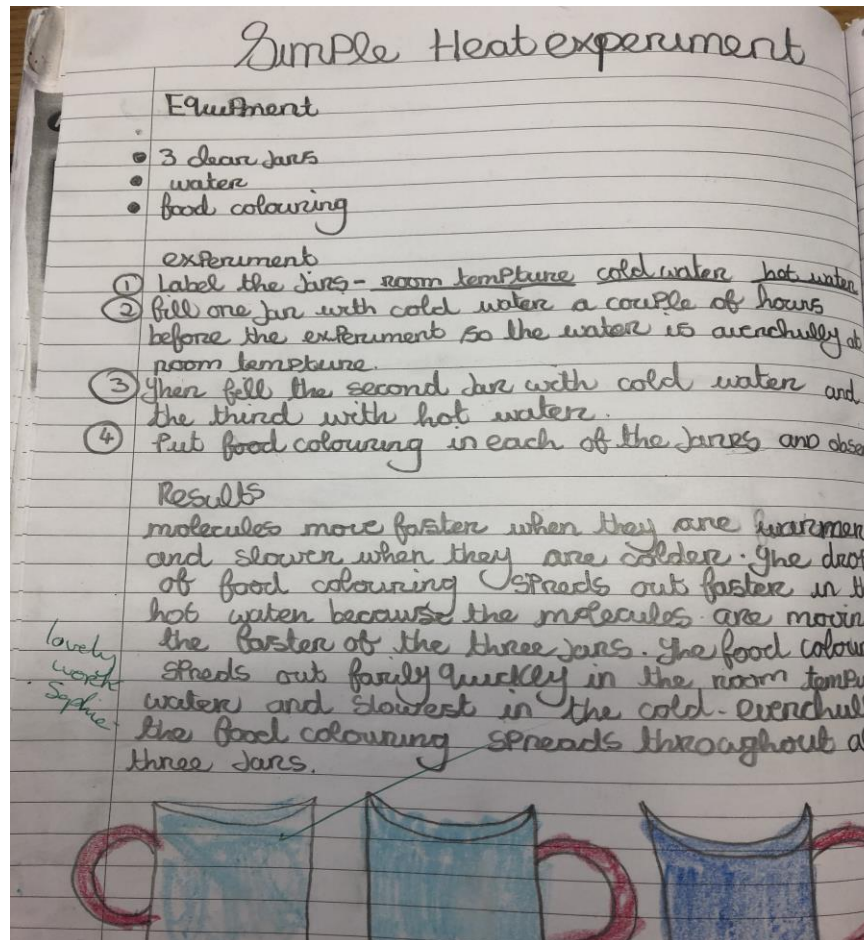
Step 1 – Science – Materials

5th Class - Cloud in a jar



Energy and Forces

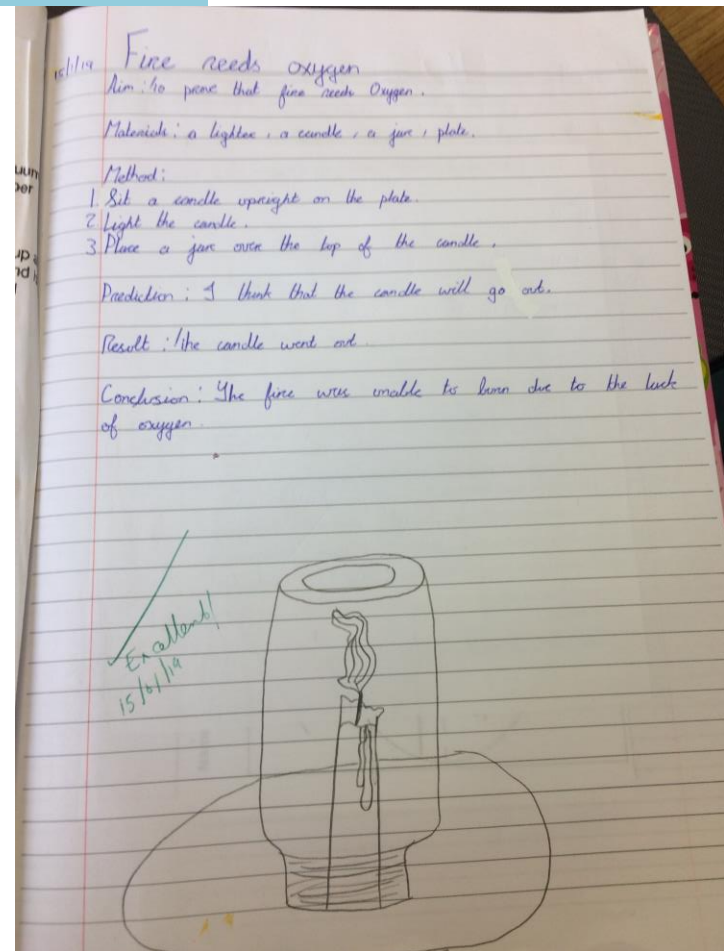
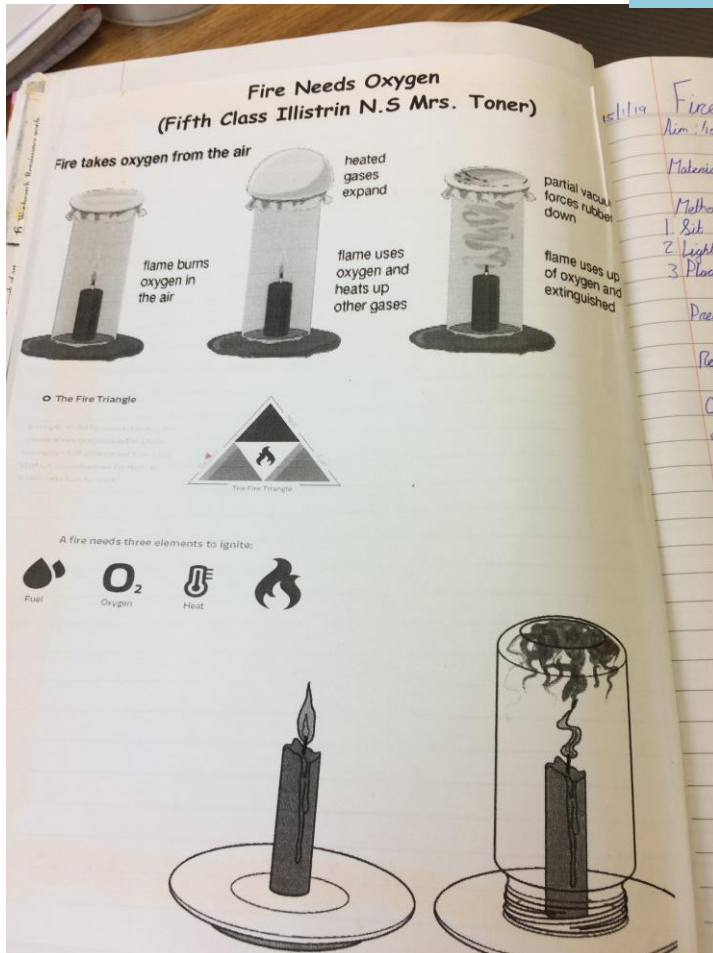
Rang 3 Investigating Heat



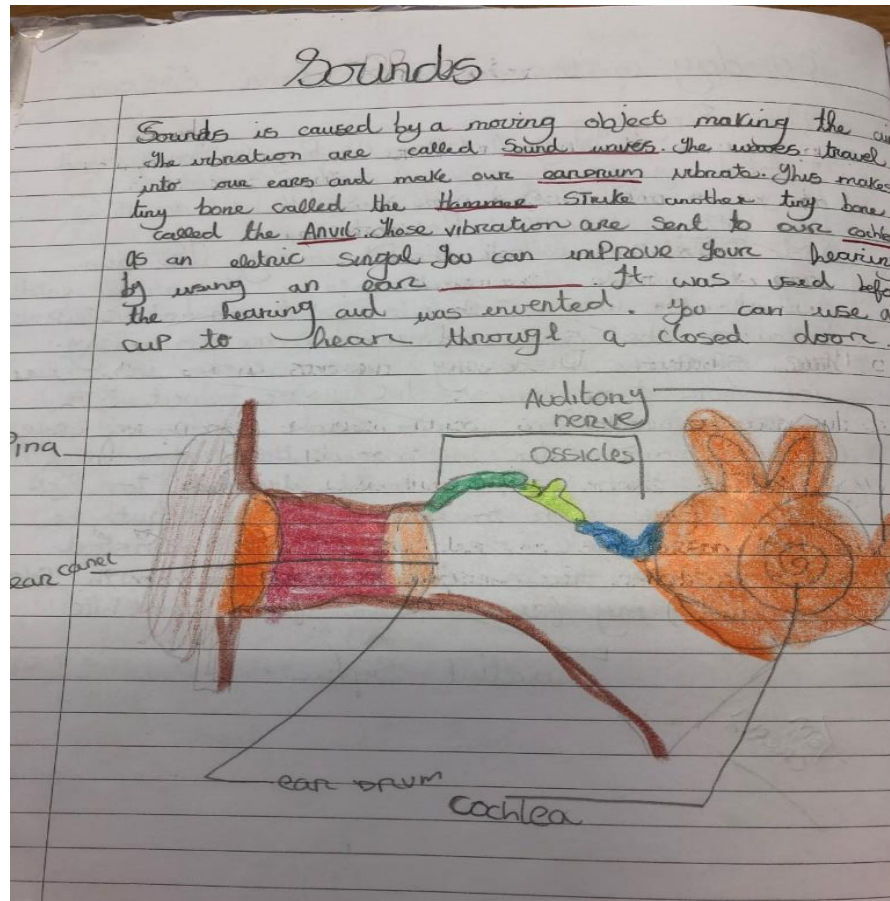
Step 1 – Science – Materials

5th Class - Heat

Step 1 – Science – Materials



Rang 4 - Strange Sounds



Feeling sound by putting your hand on your throat.

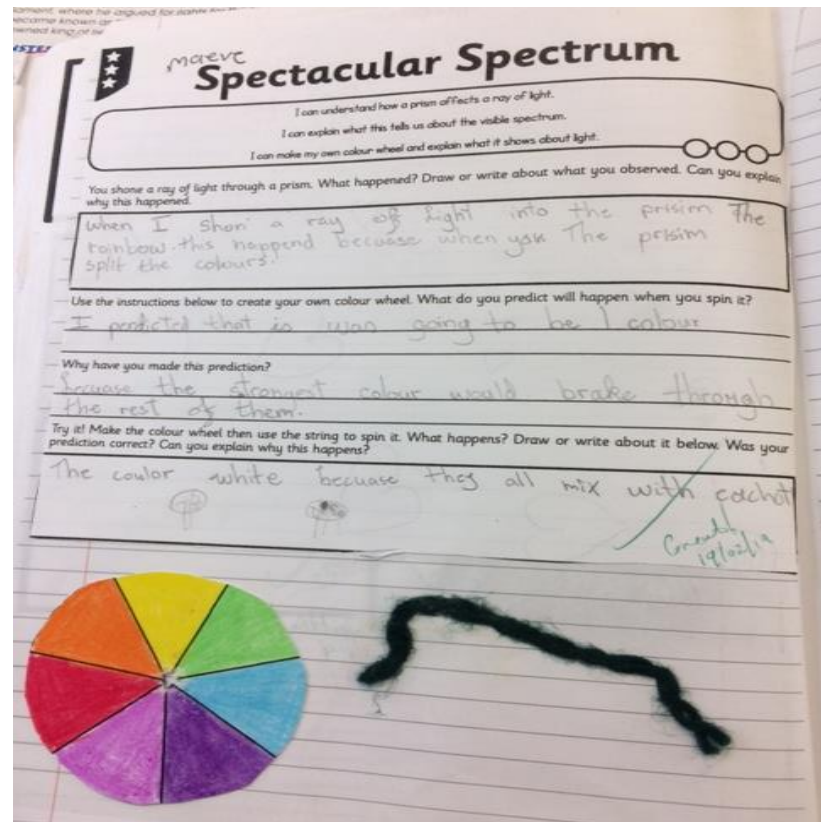
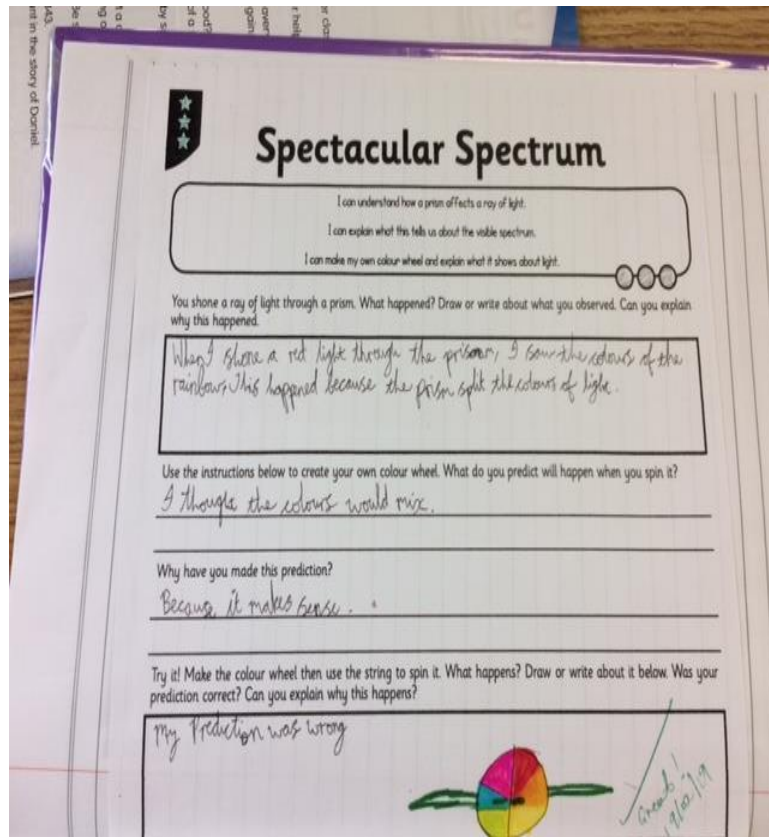
Step 1 – Science – sound

EM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Sound travelling through the desk

Spectacular Spectrum

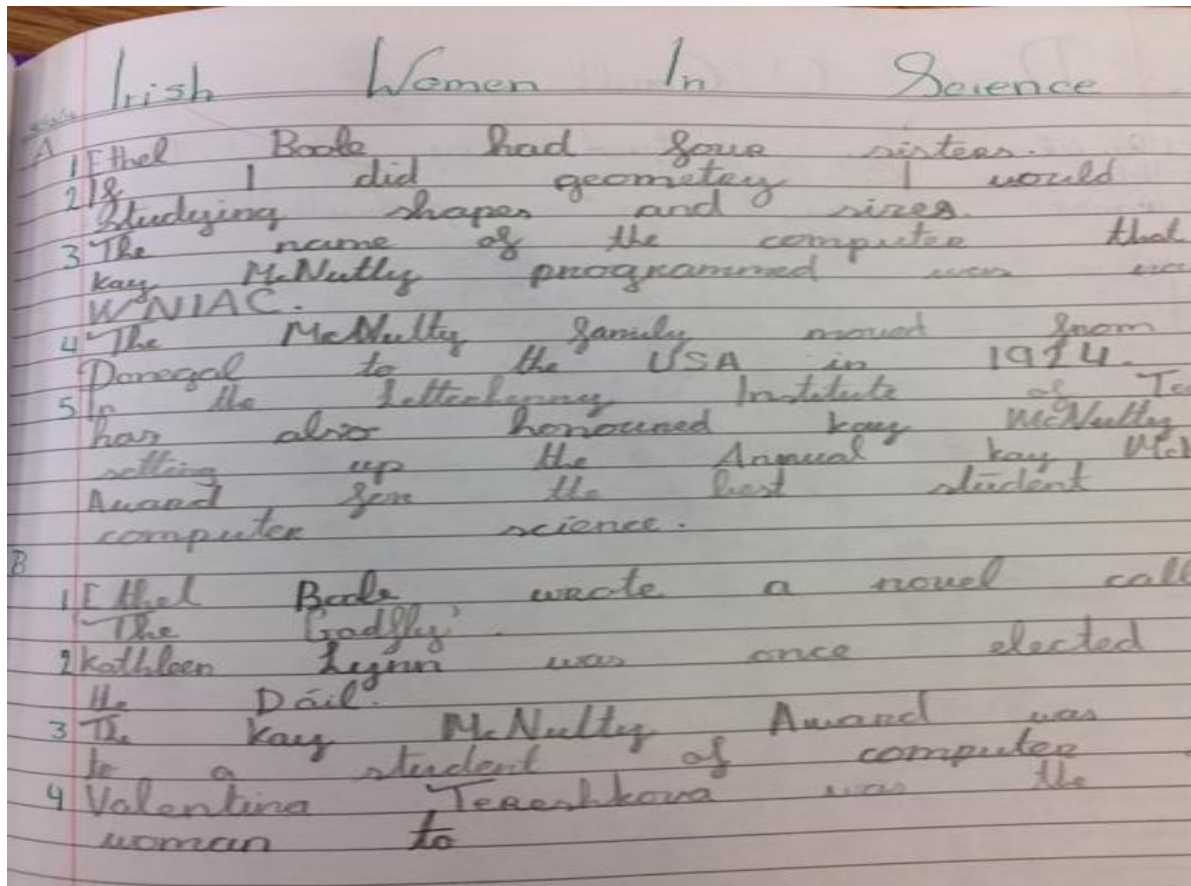
Exploring the splitting of light using Prisms



Step 1 – Science – Energy and Forces

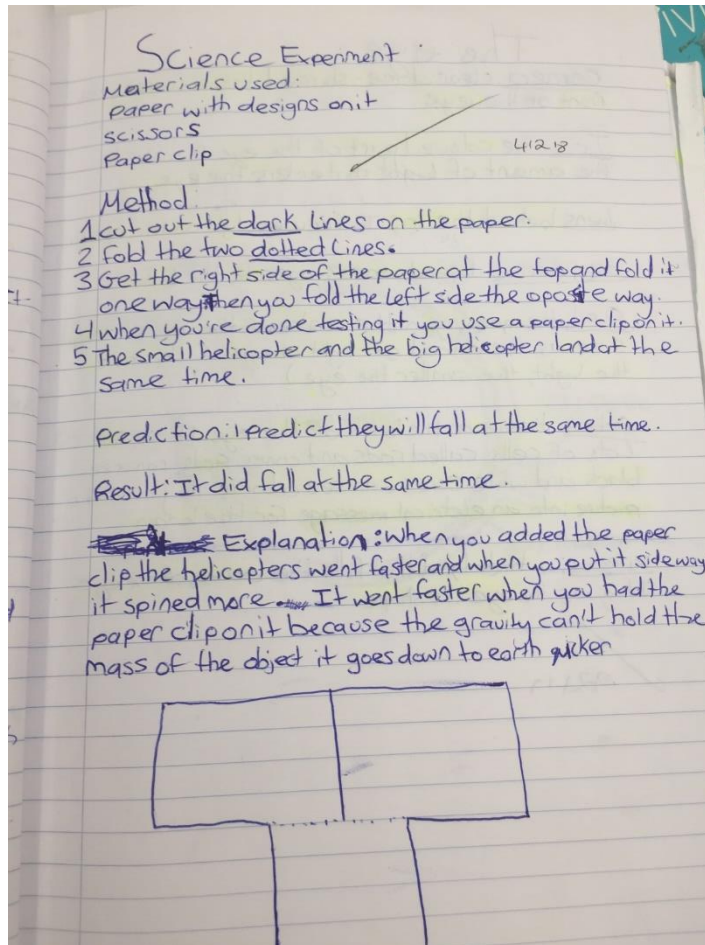
STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Spectacular Spectrum



Step 1 – Science – Energy and Forces

Forces – Rang a 4 Paper Helicopters

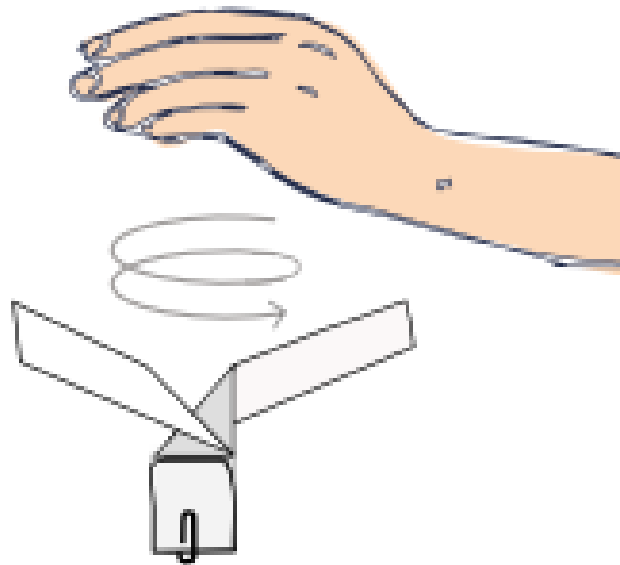


Does adding weight by attaching a paperclip have any effect on how the paper helicopters fall? Yes, they gain momentum as they fall with the added weight.

Step 1 – Science – Energy and Forces

Forces – Rang a 6

Make a Paper Helicopter



Step 1 – Science –
Energy and Forces

Moving Air

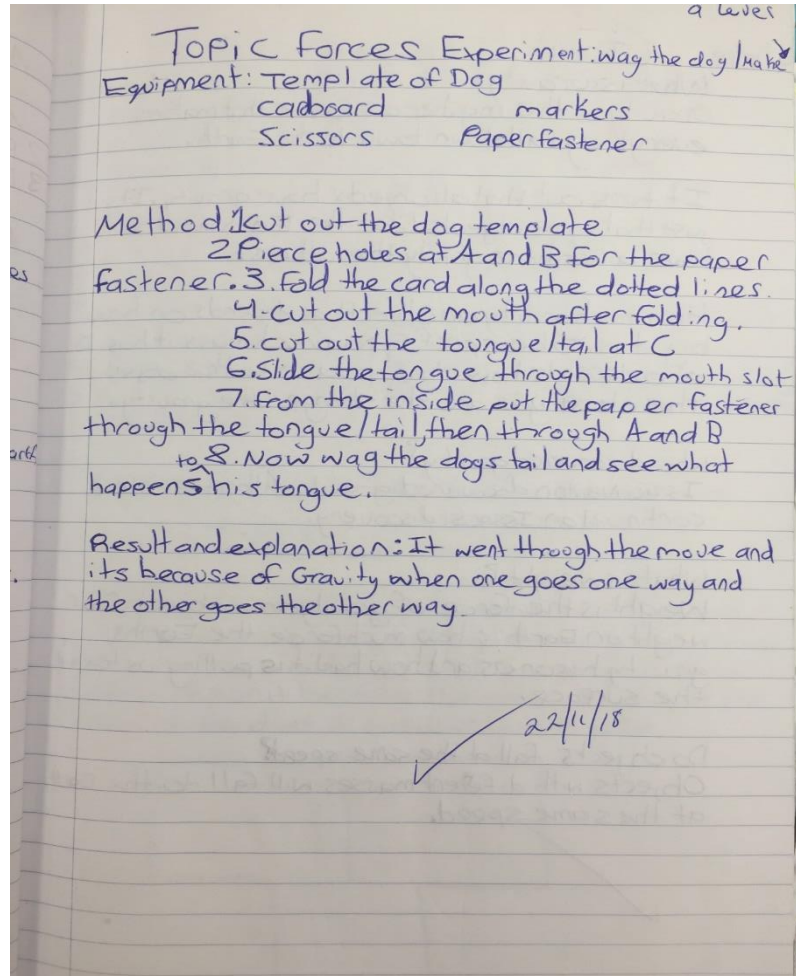
Rang a 5 explored how air can make things move



Step 1 – Science –
Energy and Forces

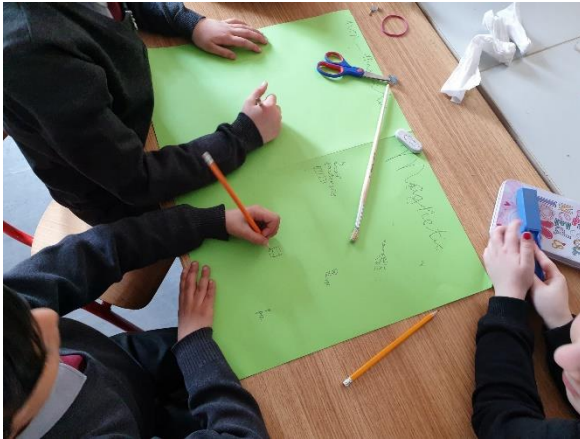


Rang a 6 – Forces – Make a Lever Wag the Dog



Step 1 – Science – Energy and Forces

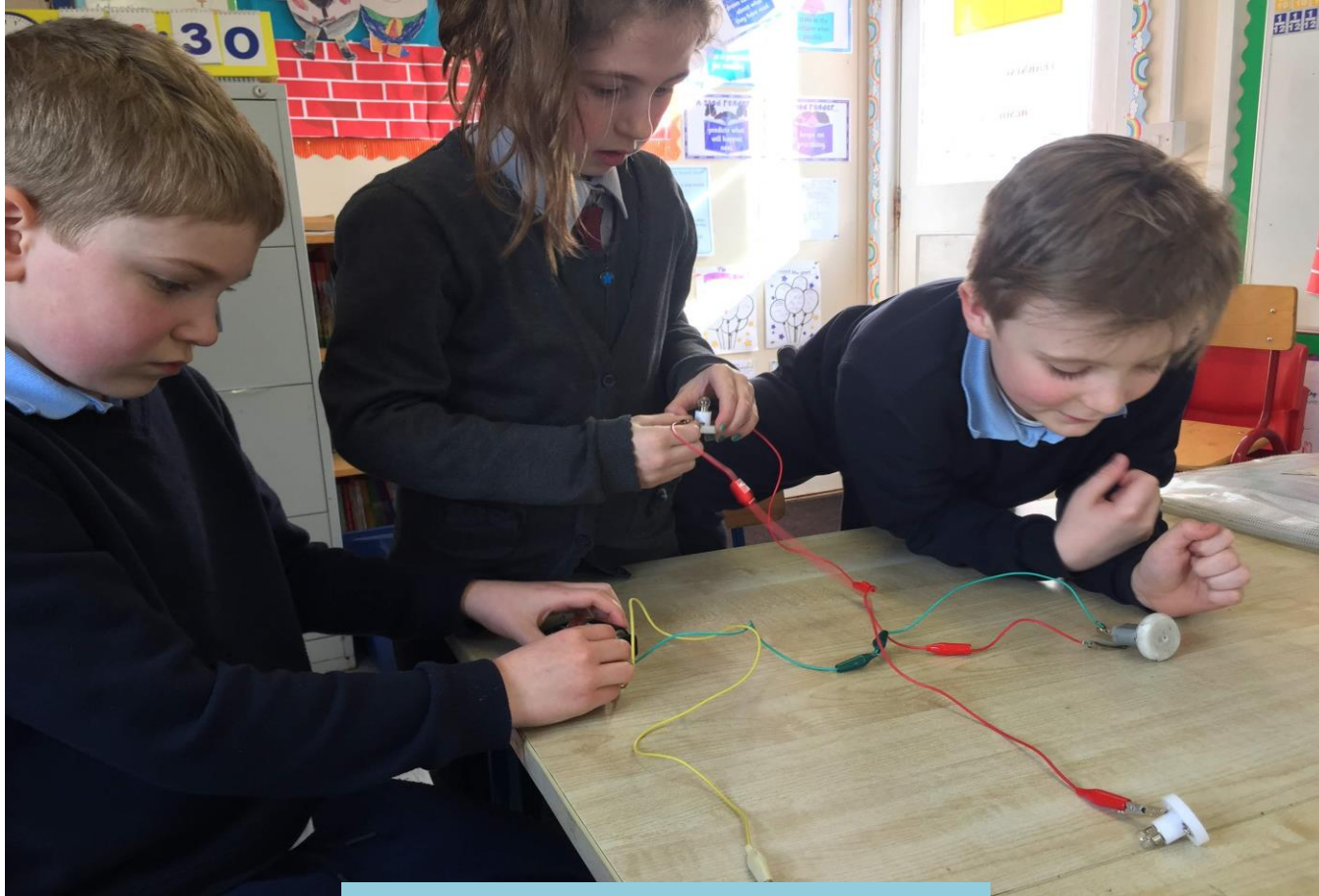
1st Class Investigations with Magnets



Step 1 – Science – Energy and Forces: Magnetism & Electricity

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Rang 2 Circuits



Step 1 – Science – Energy and Forces

Rang 3 Magnets

Magnets

Some materials are attracted to magnets others are not
 You will know if they are attracted because they will 'stick'
 for each material you will need the test first, then test
 work with a partner, record your results individually

	Material	Prediction	result	was I right or wrong
1	Jumpers	NO	NO	right
2	Desk	Yes	Yes	right
3	Pencil	Yes	Yes	wrong
4	Scissors	Yes	Yes	right
5	2p coins	Yes	Yes	right
6	Drawing Pin	no	yes	wrong
7	Paper clip	yes	yes	right
8	Chair leg	Yes	yes	right
9	magnet	yes	yes	right
10	chess wood	yes	no	wrong
11	Crayon	yes	no	wrong
12	LP	yes	yes	right

Step 1 – Science – Energy and Forces

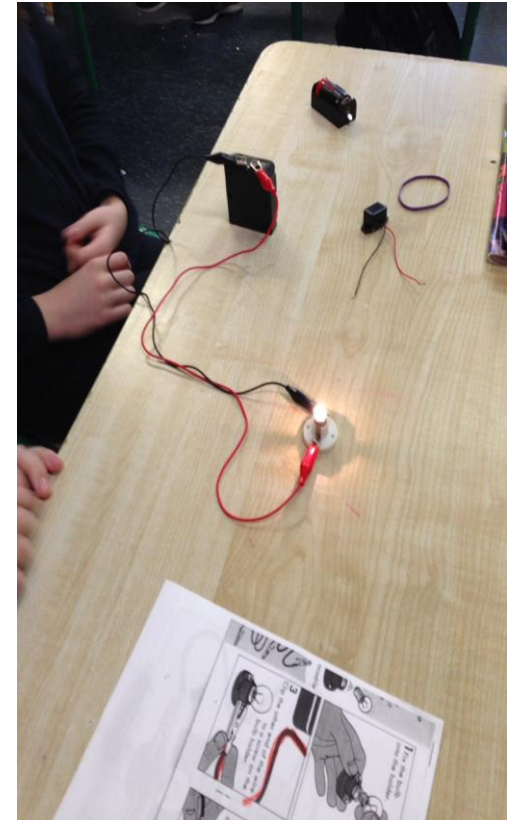
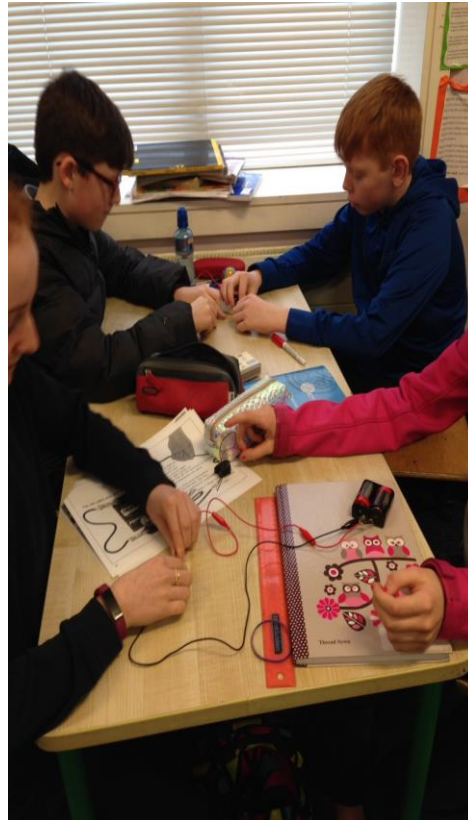
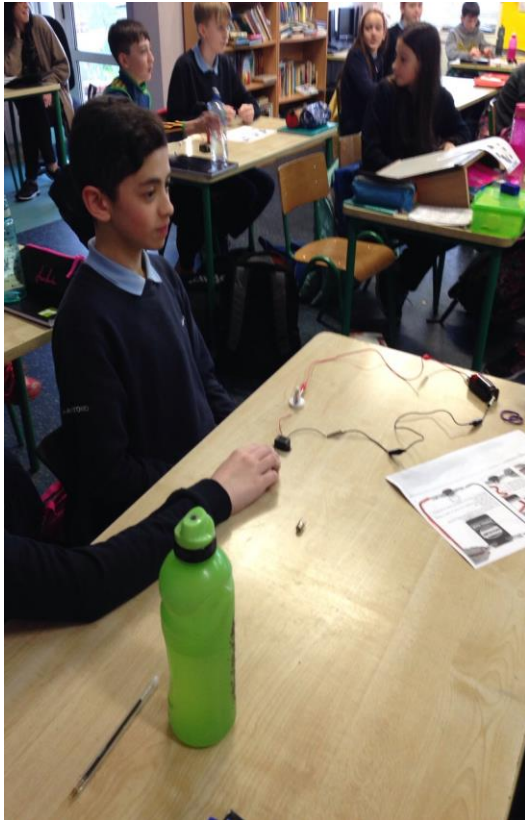
3rd Class - Magnets



Step 1 – Science – Energy and Forces

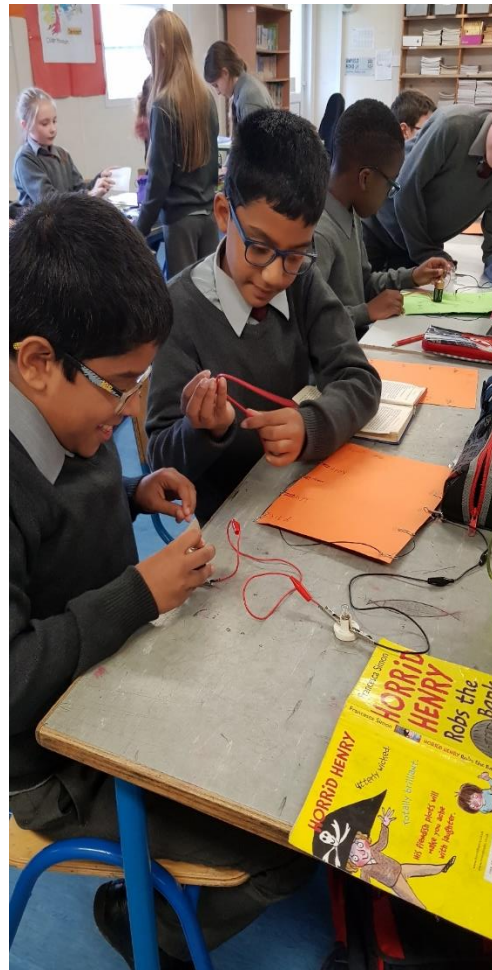
STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Rang a 5 - Magnetism and Electricity



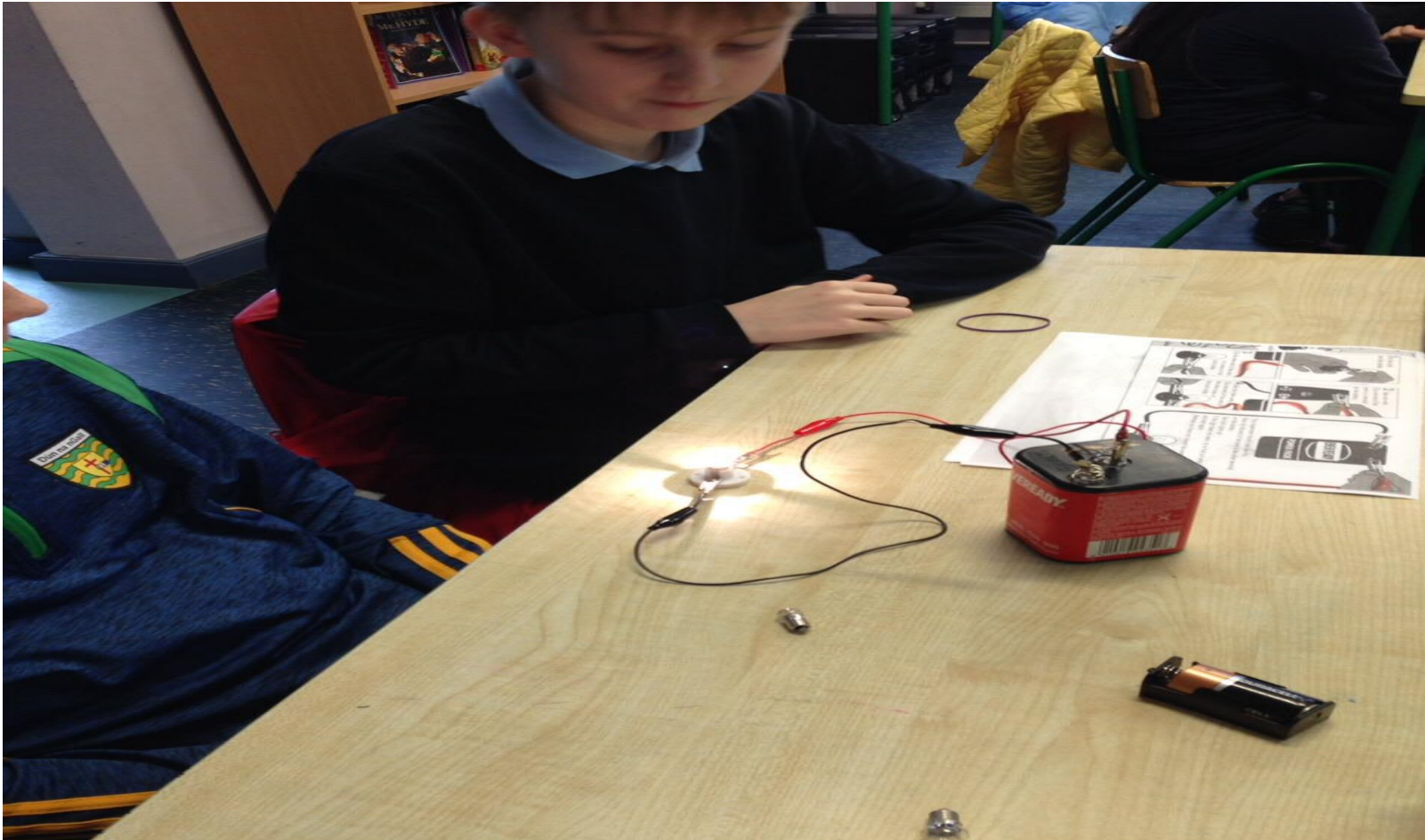
Step 1 – Science – Energy and Forces: Magnetism & Electricity

Rang 4 – Electricity Quiz



Step 1 – Science – Energy and Forces

Rang a 5 - Magnetism and Electricity



Step 1 – Science – Energy and Forces

STEM Log Evidence, Scoil Naomh Fiachra
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Static Electricity



Step 1 – Science – Energy and Forces

STEM Log Evidence, Scoil Naomh Fiachra
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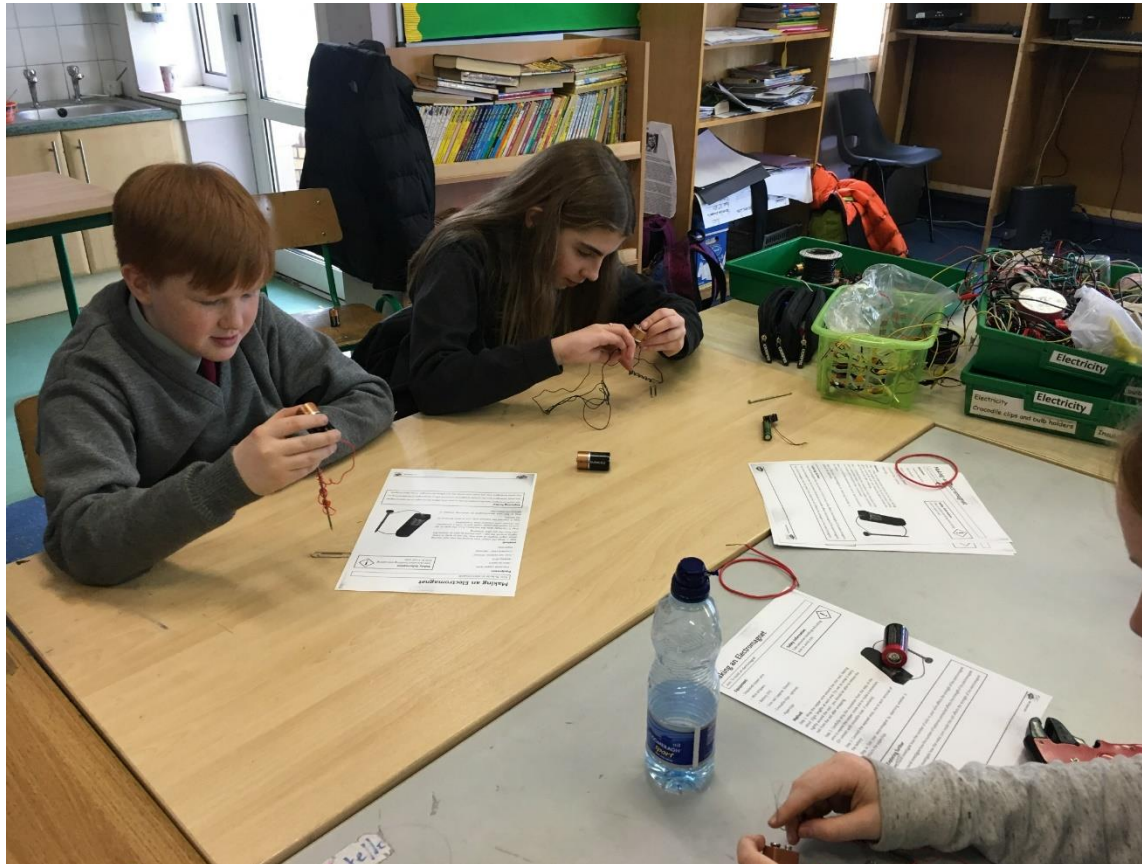
Rang a 6 – Testing the strongest magnet



Step 1 – Science – Energy and Forces: Magnetism & Electricity

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Rang a 6 – Making an electromagnet



Step 1 – Science – Energy and Forces: Magnetism & Electricity

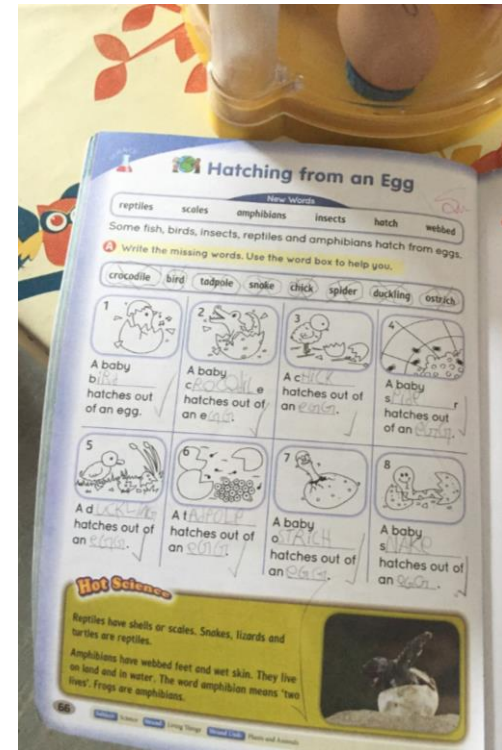
STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Environmental Awareness and Care

Signs of spring with 1st Class

Newborn Chicks

Recently Mr. Maguire incubated hen eggs with his 1st Class.



Step 1 – Science – Environmental awareness and care

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Signs of spring

Rang 1 Spring Hunt



Step 1 – Science – Living Things/
Environmental awareness

2019/DSM/662

Observing and developing an
awareness of living things in
the local environment

Signs of Spring- observing tadpoles in the school pond - 1st Class



Observing and developing an awareness of living things in the local environment

Step 1 – Science –Environmental awareness and care

Looking for bugs at Our Bug Hotel

‘Don’t pick the dandelions as our bee’s need them’



Step 1 – Science – Environmental awareness and care

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Rang 5 – Our Garden

Mr Gallagher's 5th class have reflected on the global goals by becoming involved in the incredible edibles project where they have been growing their own vegetables.

By growing your own vegetables, you can cut down on the use of plastic packaging as we found that a lot of fruit and vegetables are packaged in plastic wrapping



Step 1 – Science – Environmental awareness and care

Rang 5 – Our Garden



Step 1 – Science – Environmental awareness and care

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

5th Class - Garden in a Jar



Step 1 – Science – Environmental awareness and care



Environmental Awareness and Care

Litter Pickers and students caring for our school grounds



Step 1 – Science – Environmental Awareness and Care



Rang 5 Irish Aid Project Explored the Global Goals Theme: Leave No One Behind



Step 1 – Science – Environmental awareness and care
Projects on sustainability and the environment

Rang a 5 brought in any recycled material they had save from home over three days



Maths Link:
Measuring
weight of
recycled
waste



They were amazed to find that they collected 75 water bottles over 3 days from just 24 households. They calculated that if every class in the school collected this number of bottles over 3 days that it would amount to 1575 bottles in total! Children got through to the Regional Finals of the 'Irish Aid Award.'

Step 1 – Science – Environmental Awareness and Care

FACTS!

Right now an estimated 12.7 million tonnes of plastic enters the worlds oceans each year.

Since the 1950s around 7.53 million tonnes of plastic has been produced worldwide which is the same as 800,000 Eiffel towers

Only 9% of this was recycled!!!!!!!

1 million plastic bottles are bought every minute!

In Finland 94% of all plastic bottles are recycled

In Kenya anyone to be found producing, selling or even buying plastic bags can face four years imprisonment or fines of up to £31,000.



Step 1 – Science – Environmental awareness and care

We then used the recycled packaging to make a city to display the 'Global Goals' in a display area in our school.



Step 1 – Science – Environmental awareness and care

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Finished Model



Step 1 – Science – Environmental awareness and care

3rd Class Trees

Exploring ways to Protect, Conserve & Enhance the Environment



Step 1 – Science – Environmental Awareness and Care

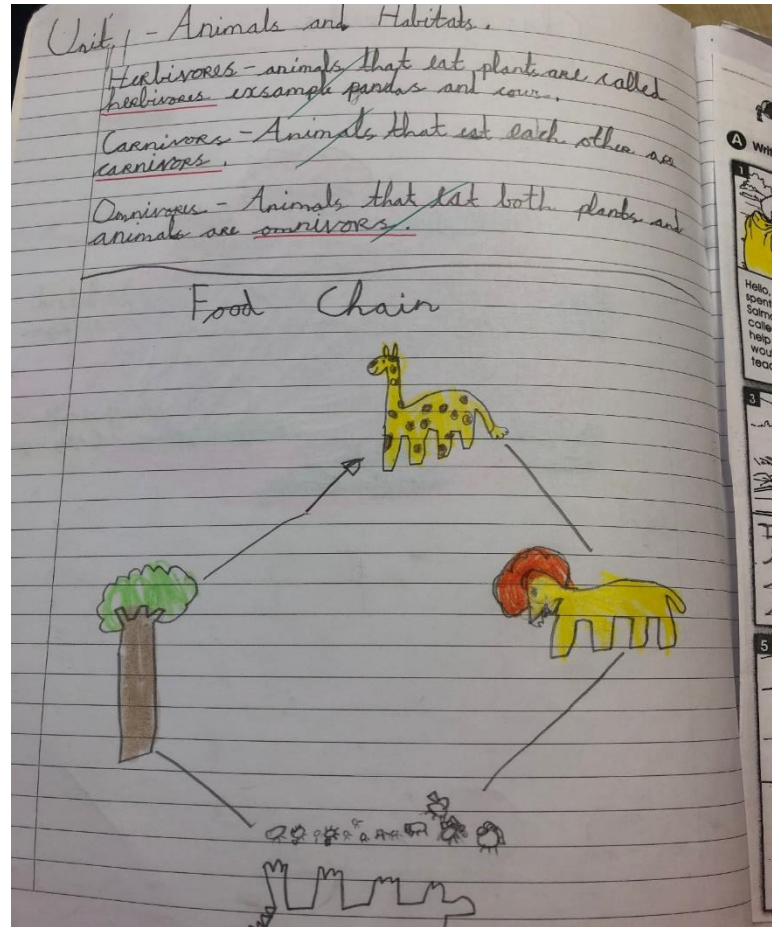
STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Scoil Naomh Fiachra is the *Incredible Edibles* School of the week



Step 1 – Science – Environmental awareness and care

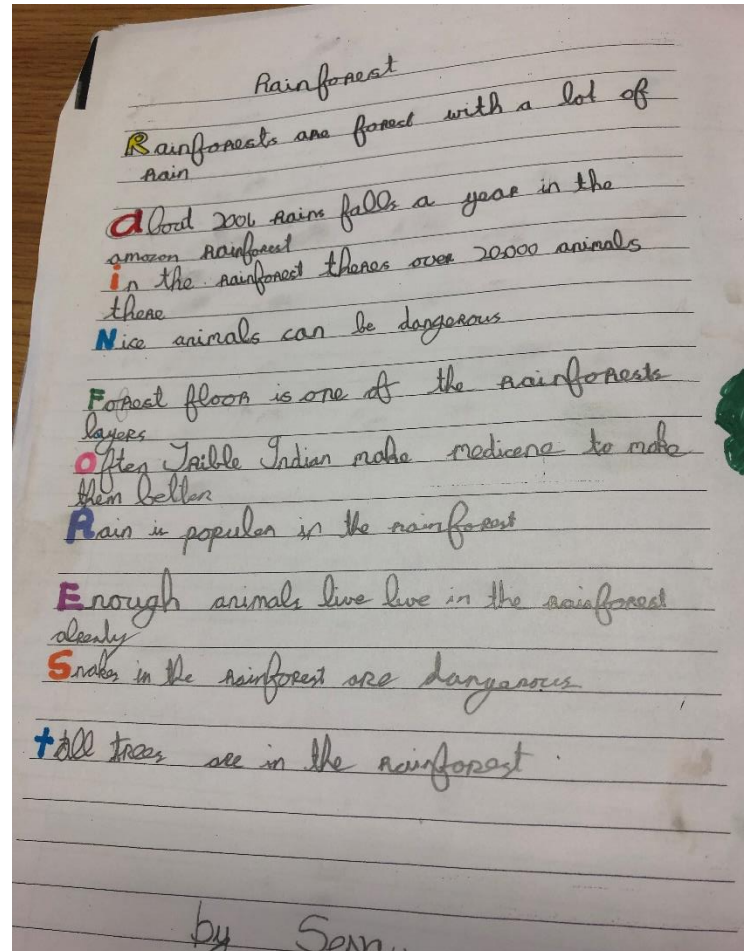
Rang a 3 Animal Habitats



Step 1 – Science : Environmental Awareness and Care

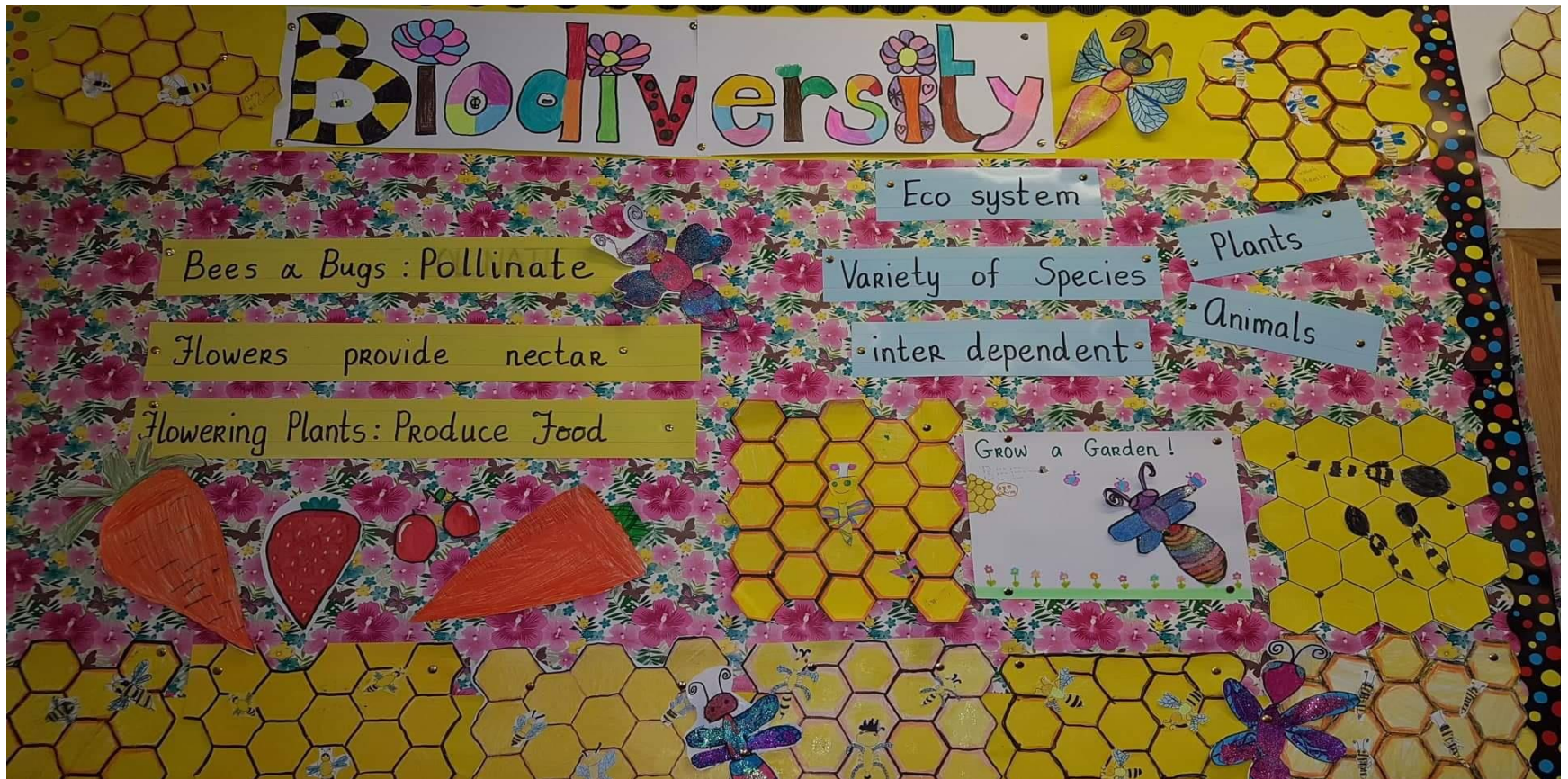
STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Rang 3 Rainforest



Step 1 – Science – Environmental awareness and care

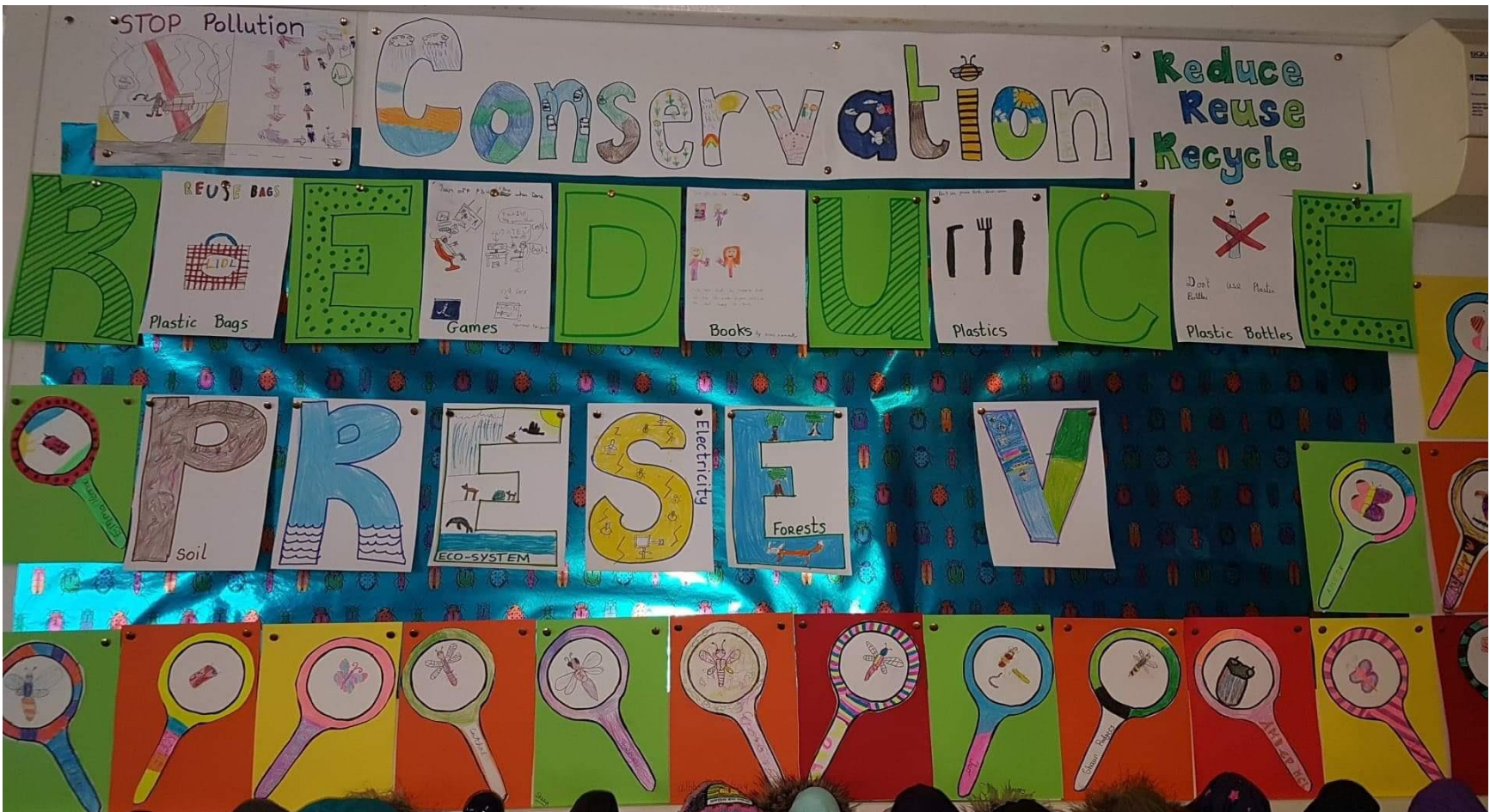
Biodiversity



Step 1 – Science – Environmental awareness and care

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

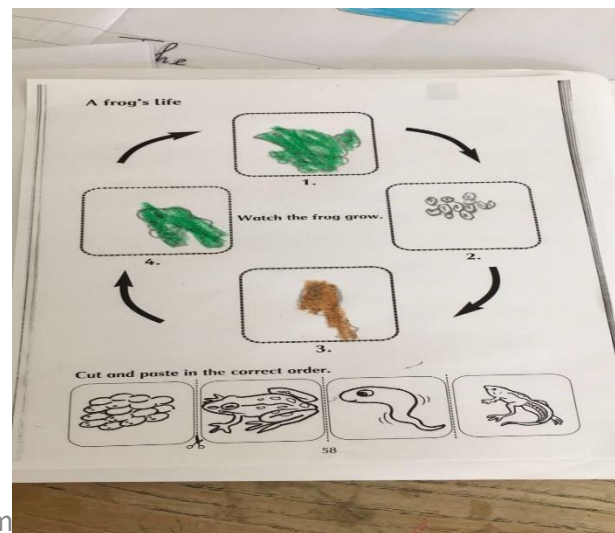
Conservation



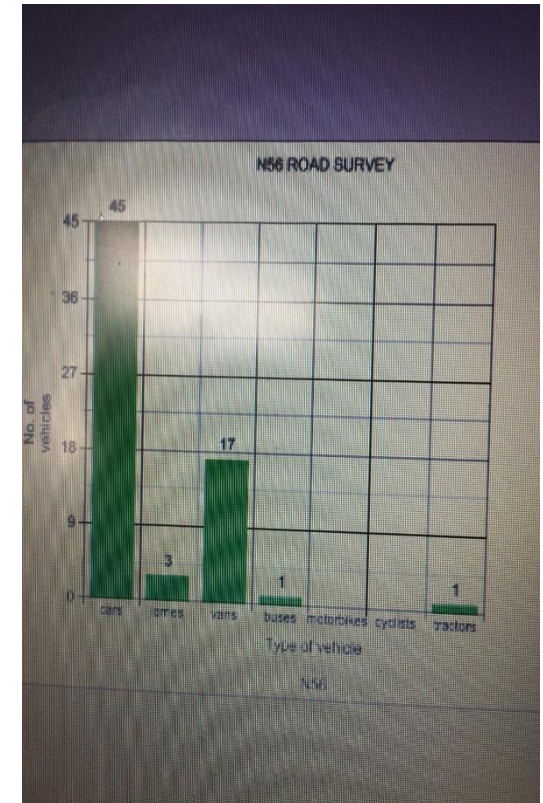
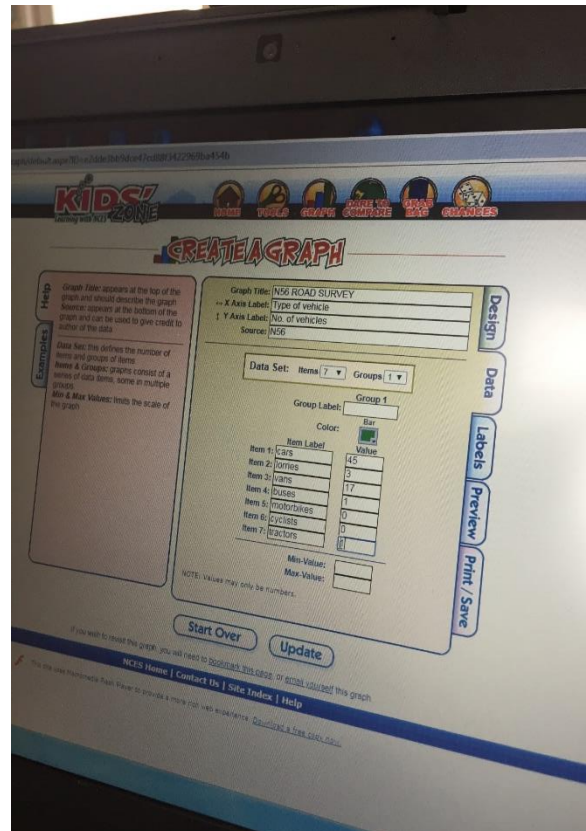
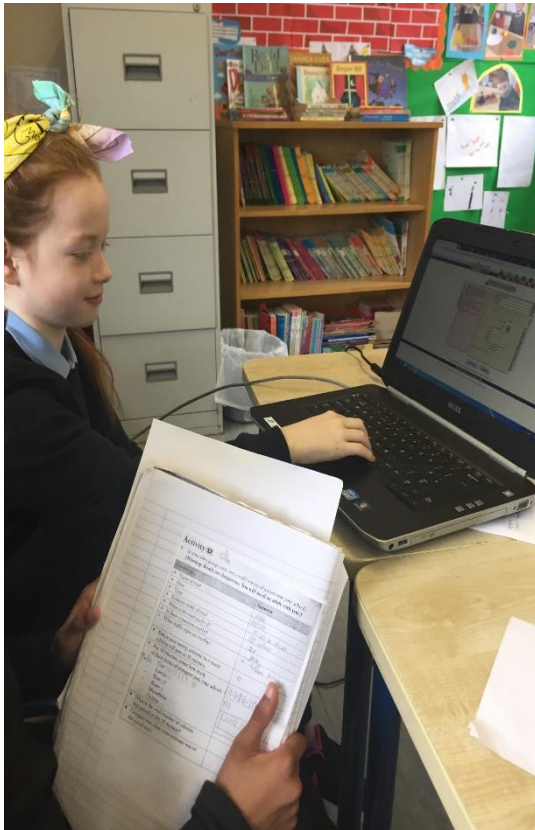
Technology

Step 2 – Technology and ICT

Junior Infants investigating the Life Cycle of a Frog using video's, Powerpoint & their ladybug.

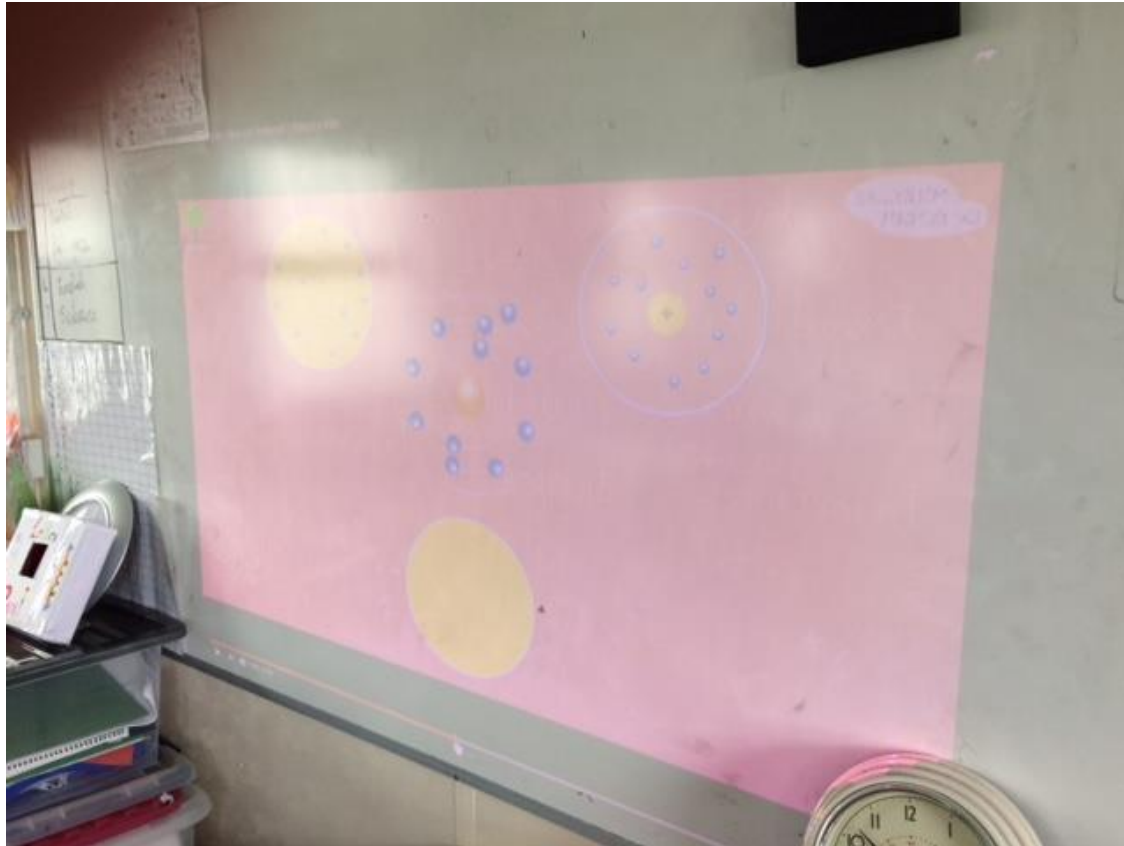


Traffic Survey



Step 2 – Technology and ICT

5th Class using Youtube clip to teach Science



Step 2 – Technology and ICT

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

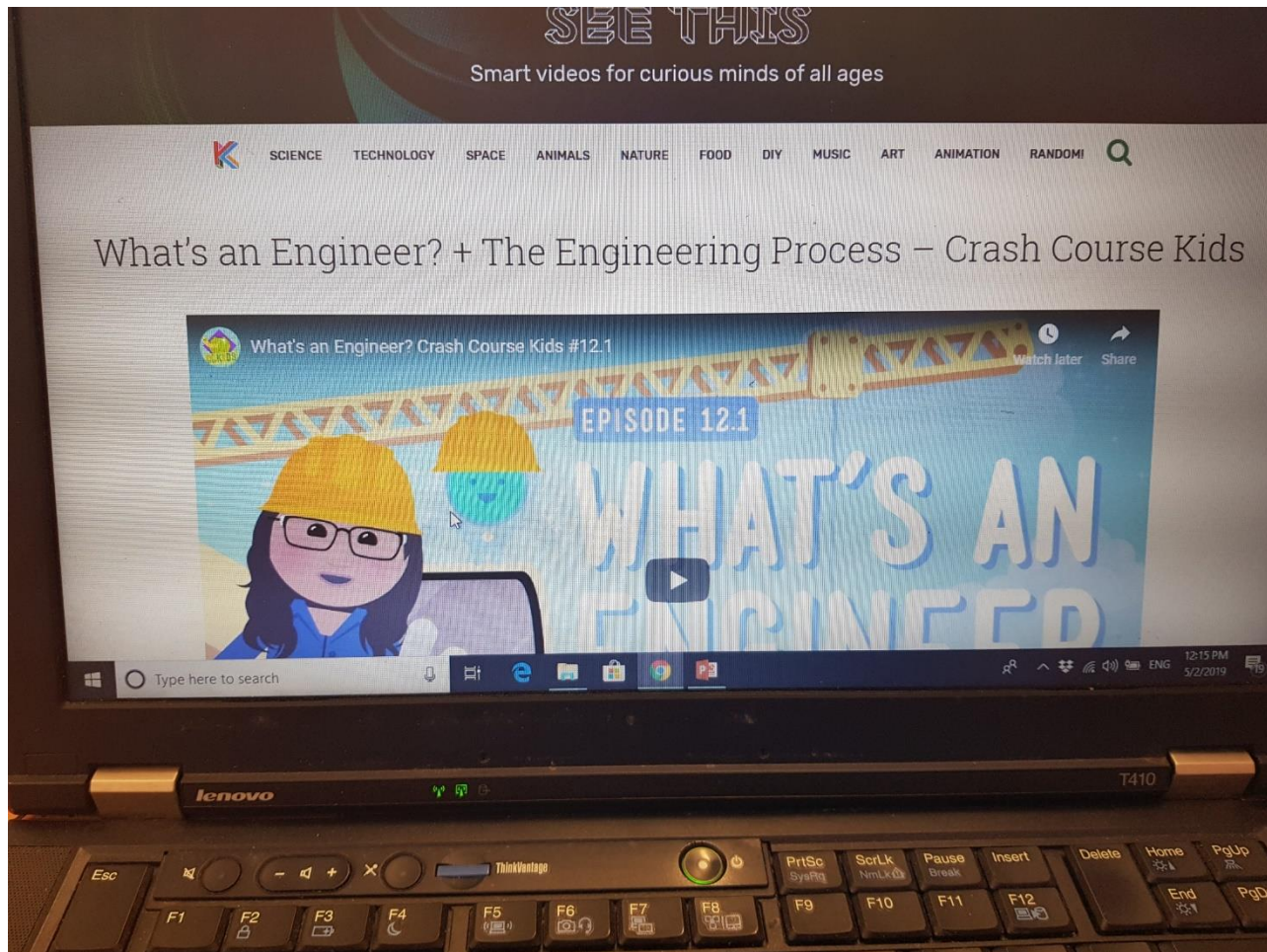
4th Class interview with an engineer

Video's of interview recorded

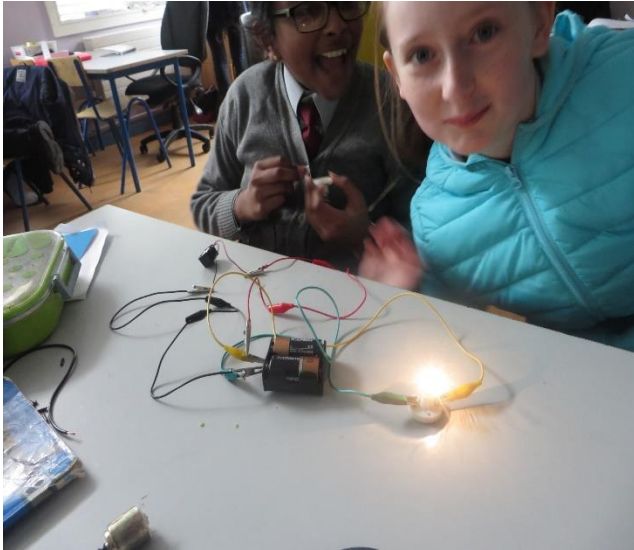


Step 2 – Technology and ICT

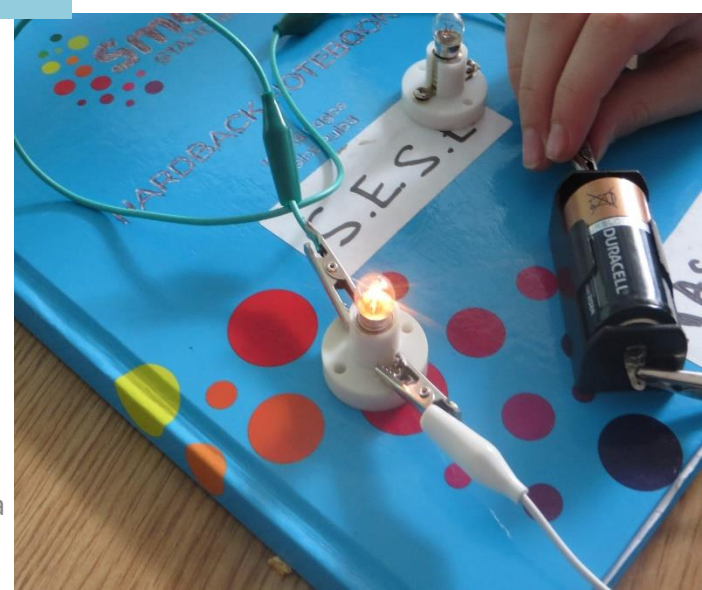
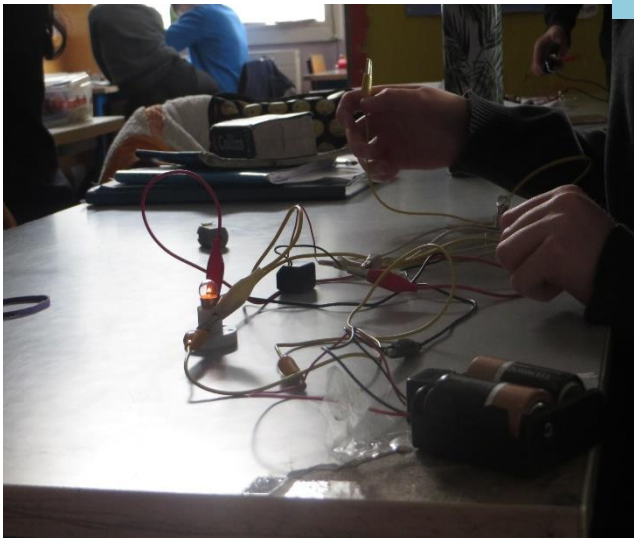
6th Class: Engineering Research



Rang 4 - Electricity



Step 1 – Science – Energy and Forces

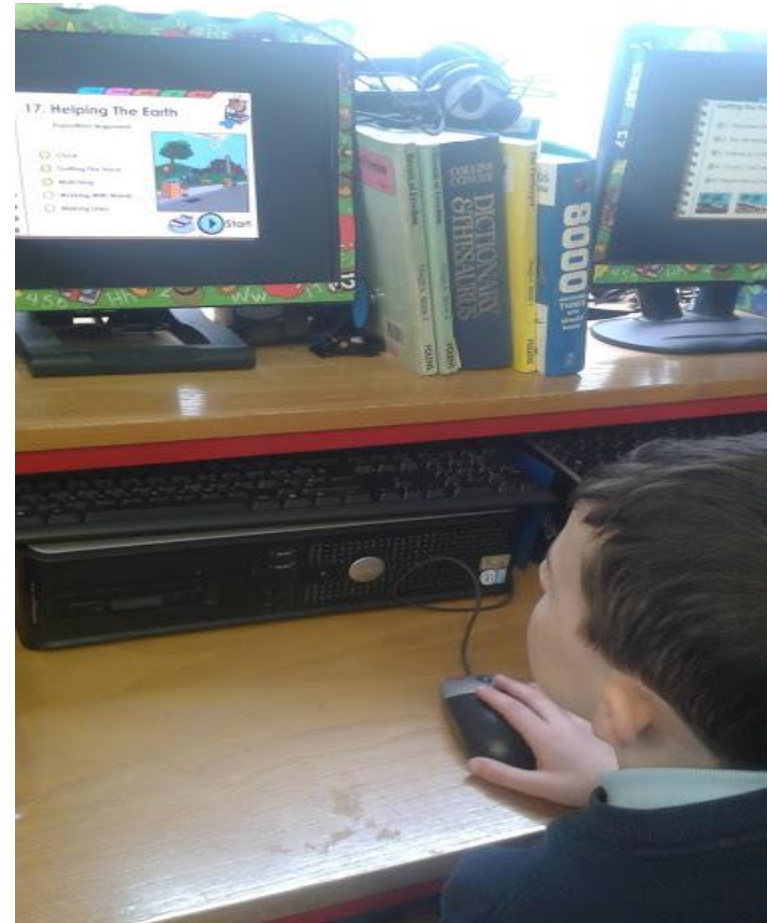
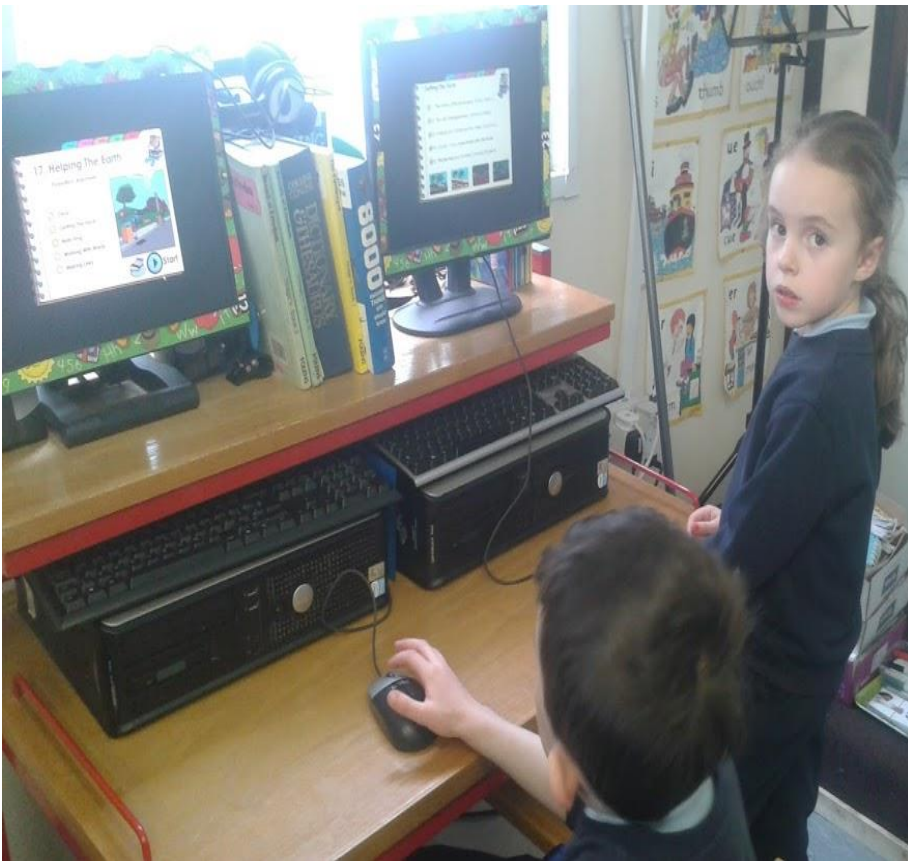


The Letterkenny Youth service delivered a workshop on safe internet use and cyberbullying for Rang a 5 pupils

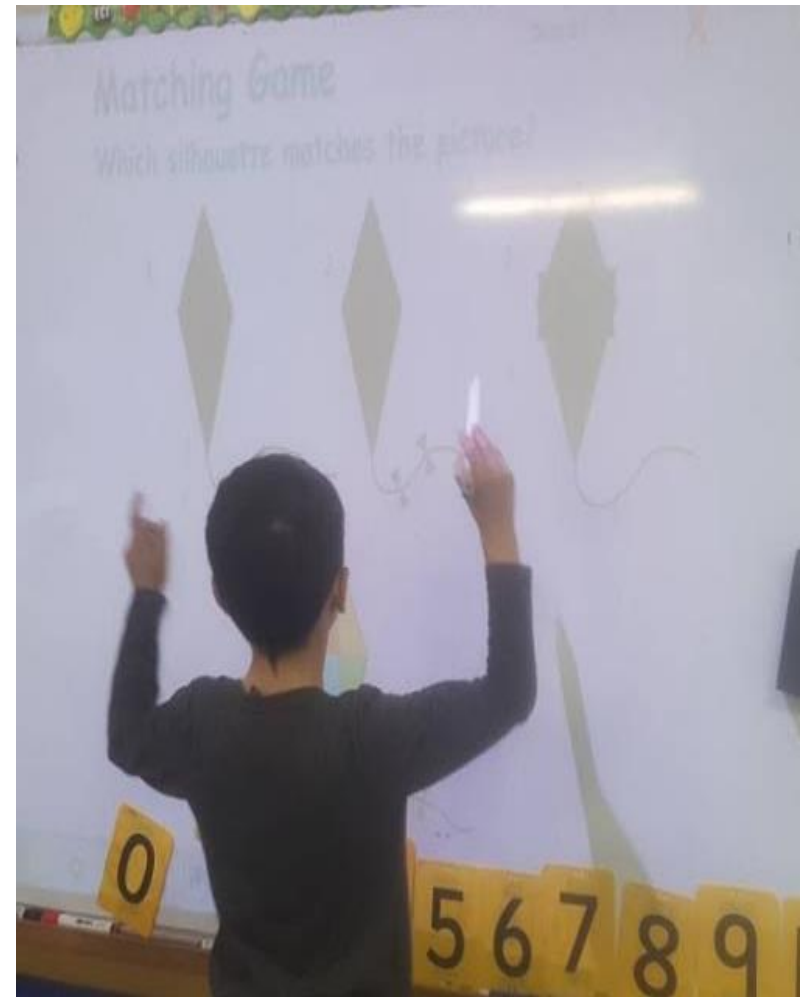
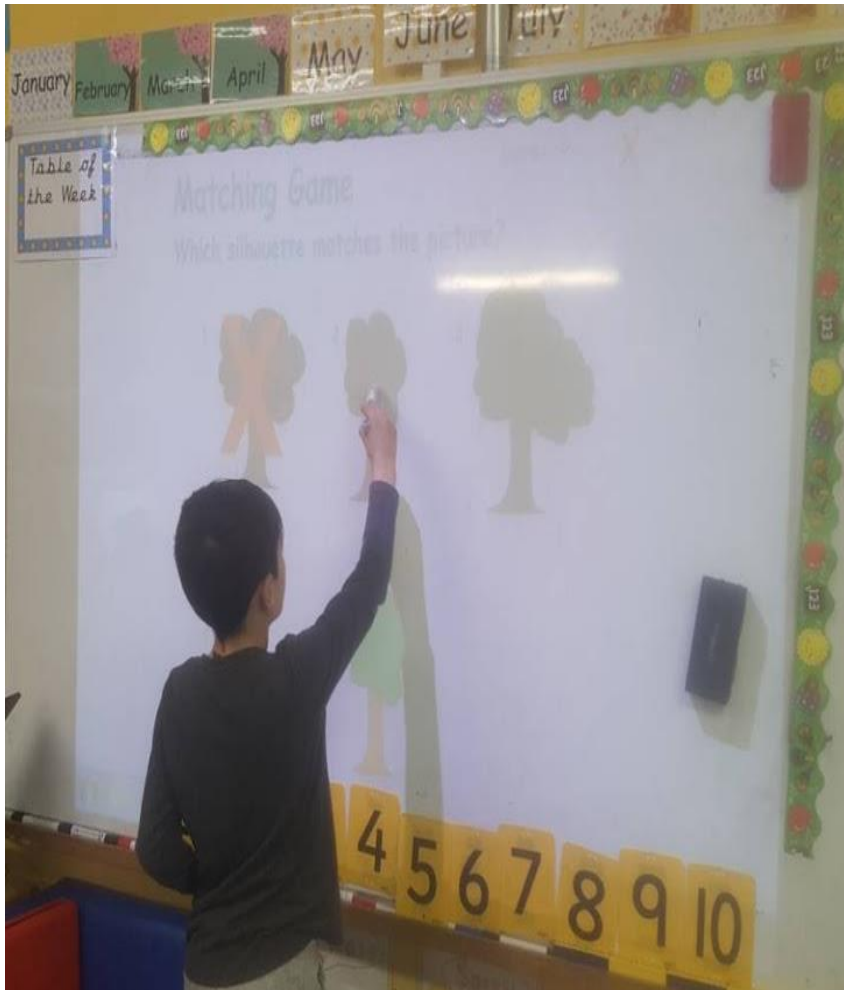


Step 2 – Technology and ICT

Pupil in 1st class using computer programmes to explore Environmental awareness and Care



Pupil in senior infants using IWB to explore shadows and silhouettes.



4th Class Dojo

CLASSES



Demo Class

5 Students 0 Parents



Rang 4 (2018/2019)

28 Students 26 Parents



New class

ARCHIVED CLASSES

SCHOOL



Scoil Naomh Fiachra

13 teachers

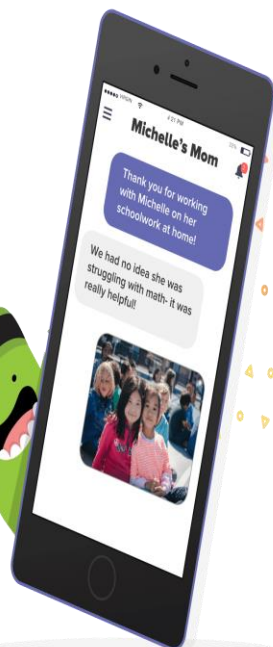


Rang 4 (2018/2019)



Happier Classrooms

The simple way to build an amazing classroom community



Sharing the story of the classroom with Parents

Safer Internet

Internet Safety Talk

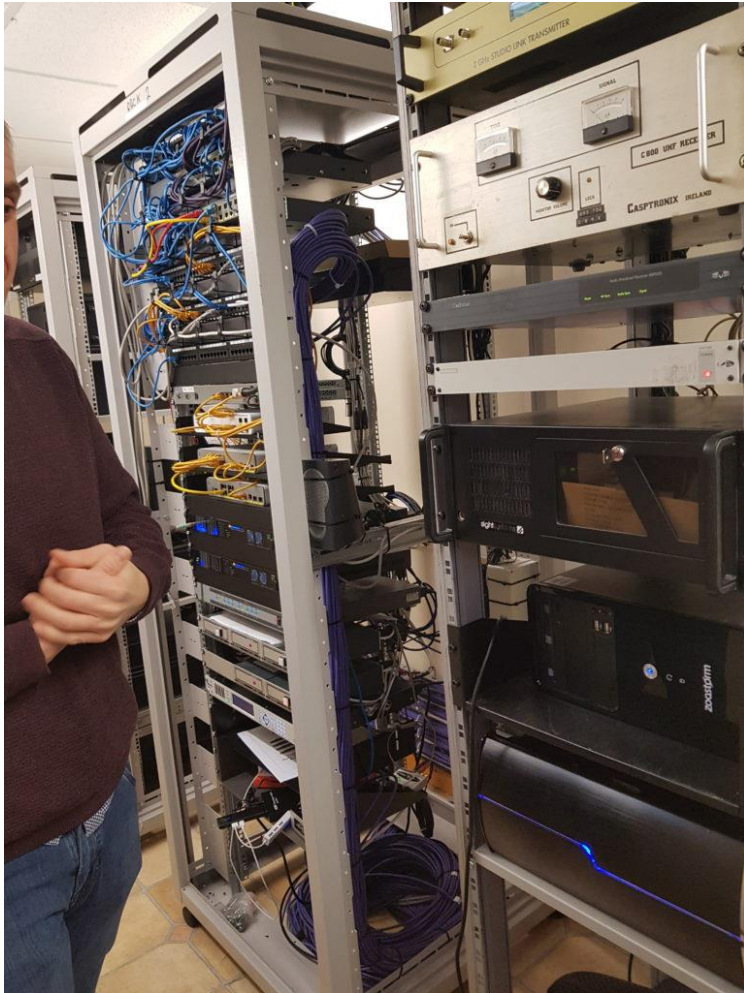
Safer Internet Day was held on 5th February 2019. Teachers took the opportunity to teach internet safety lessons to our pupils. As a follow up, Garda Talbot and Garda Raftery from Milford Garda Station hosted a seminar for our 5th and 6th class pupils on 18th February 2019. Pupils were taught about the best way to use the internet. Cyber bullying was discussed. Photo sharing and Apps that our children know a lot about were covered during the seminar.



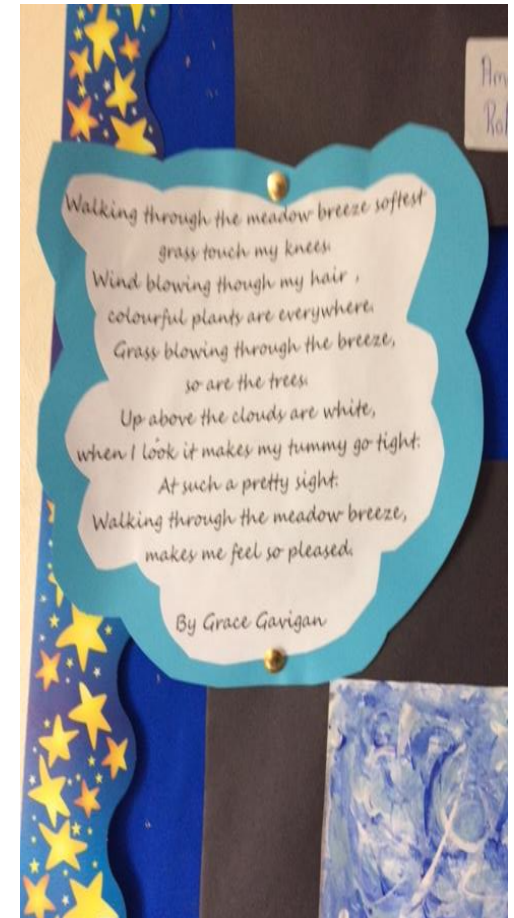
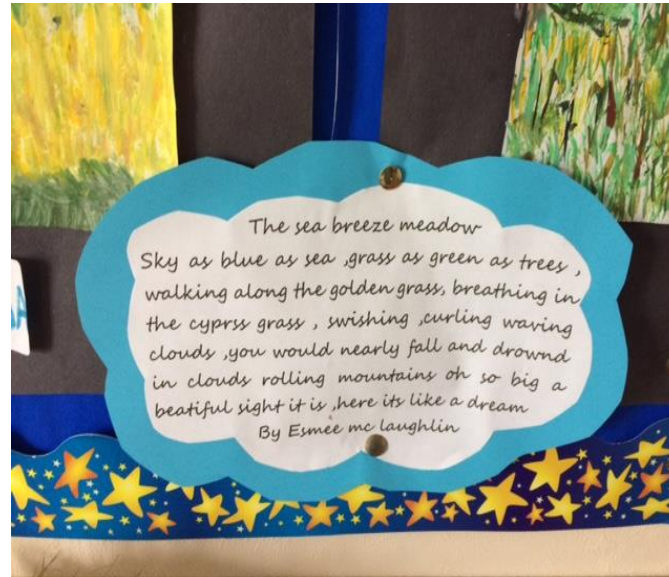
STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662



Trip to local radio station

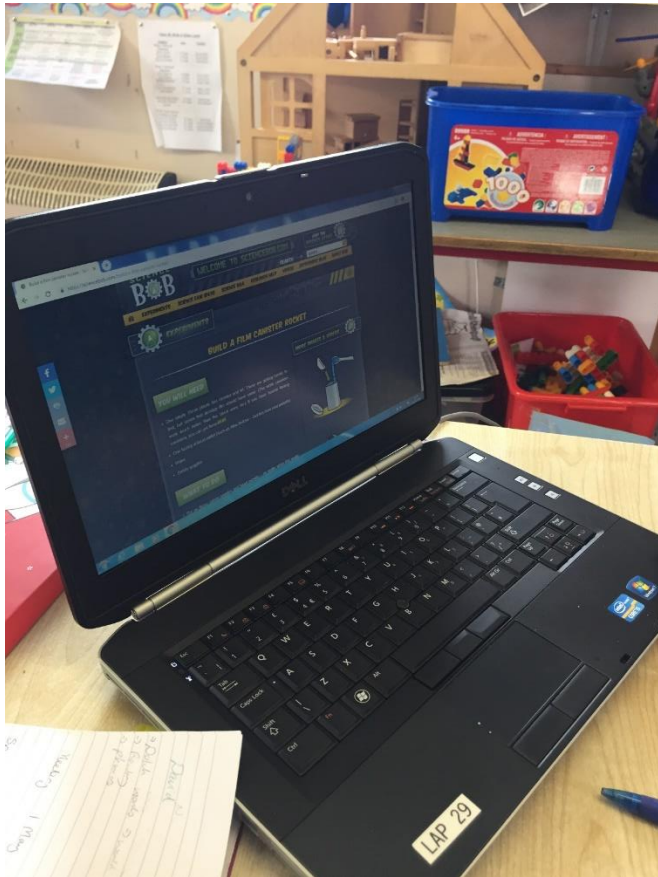


3rd Class Environment Poems using Microsoft word



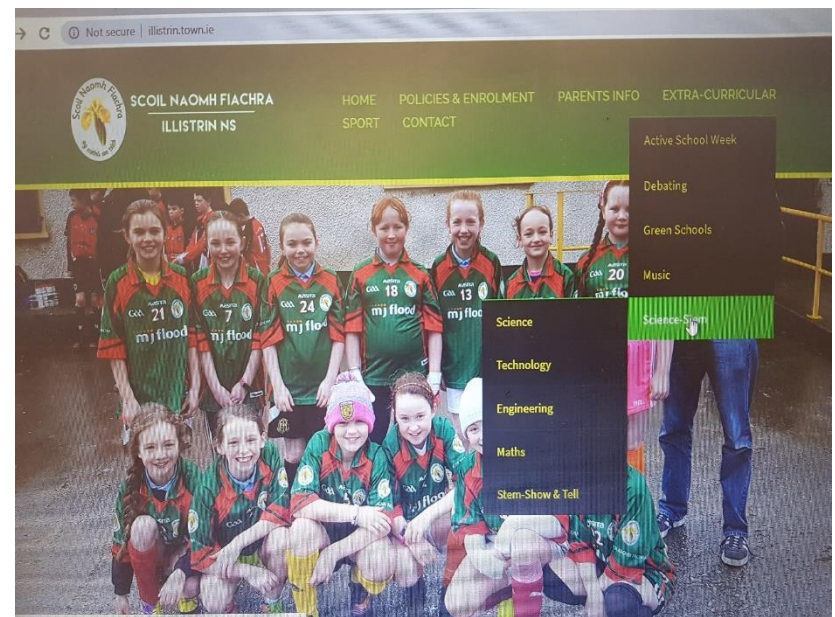
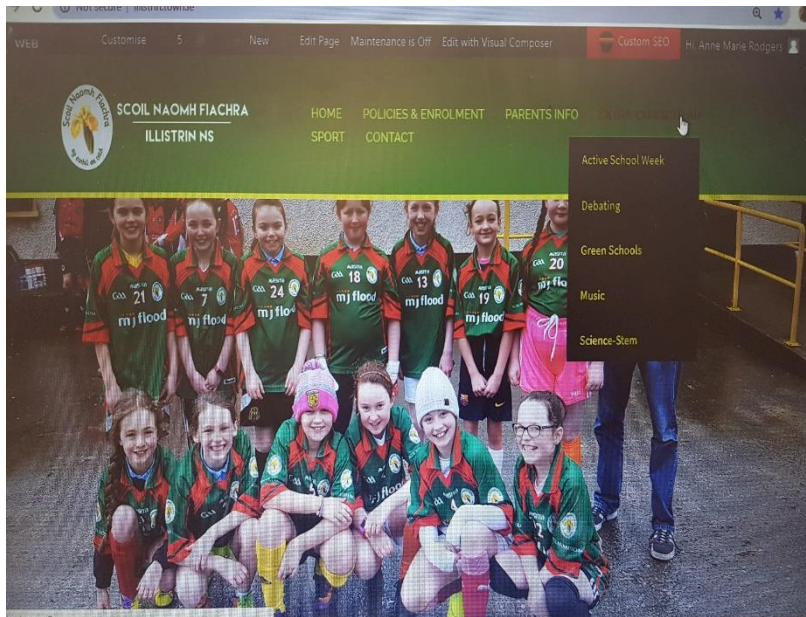
Step 2 – Technology and ICT

6th Class using the website 'BOB' – Science Experiments

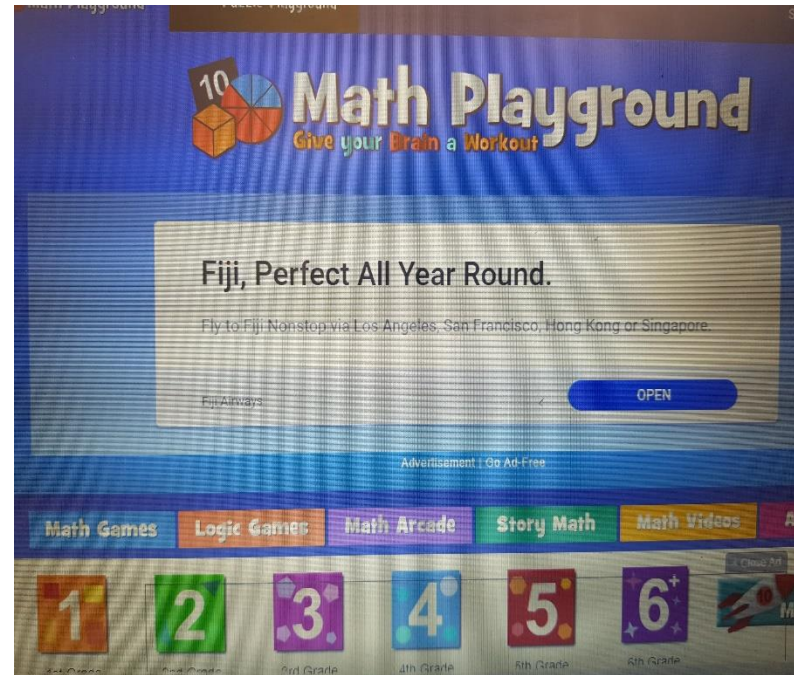
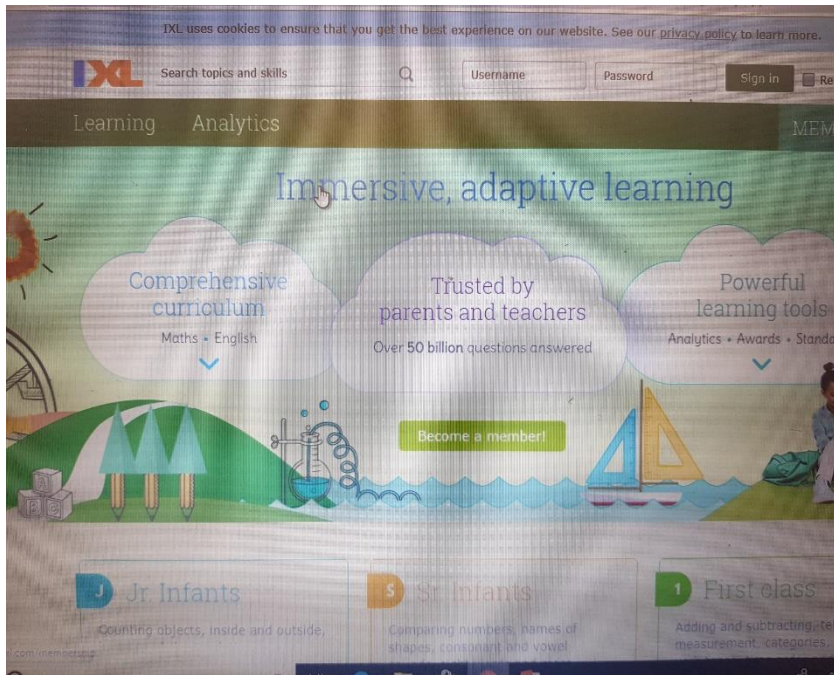


We are now in the processing of presenting all our STEM work online via our School Website

<http://illistrin.town.ie/>

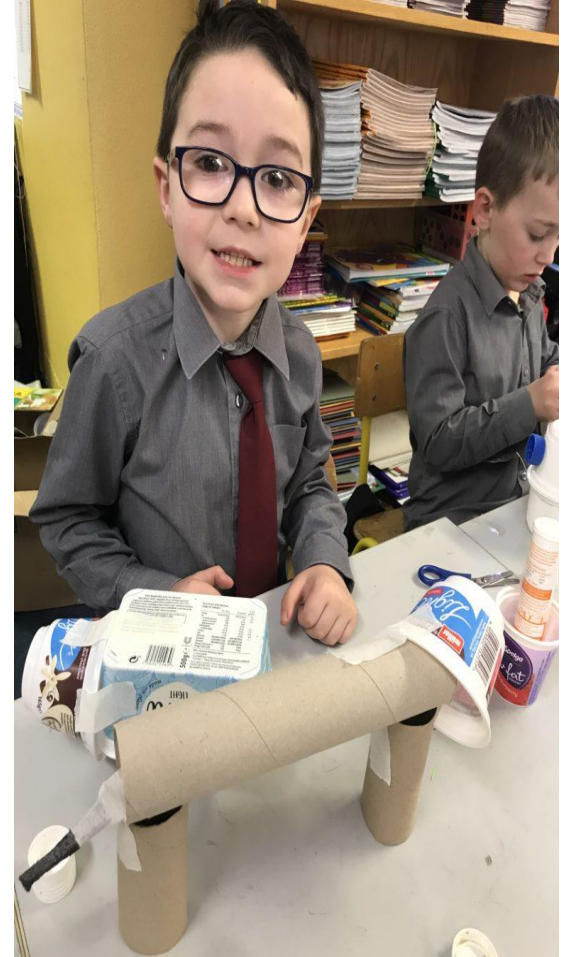
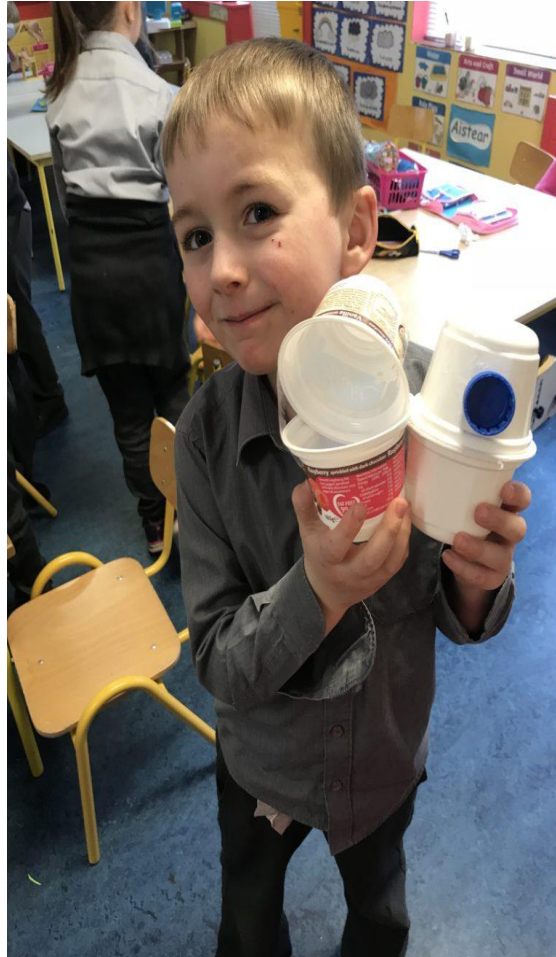


Pupils using Technology to explore maths



Engineering

Senior Infants designing and making Farm Models



Step 3 – Engineering

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2019/DSM/662

Designing and making a Farm in Senior Infants



Constructing a Farm in Ms McGroarty's Senior Infants

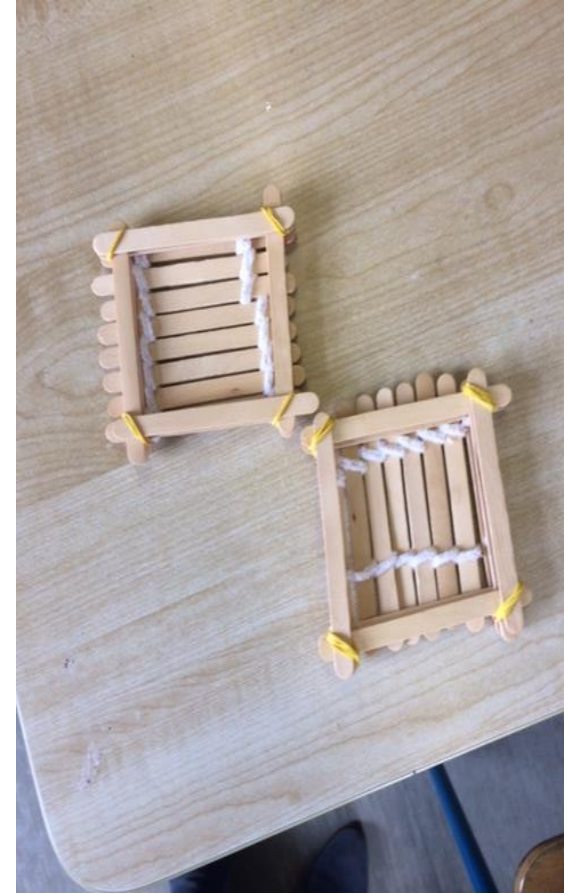


Ms McGrath's Senior Infants designing and making a Farm



Step 3 – Engineering

1st Class - Constructing bird feeders

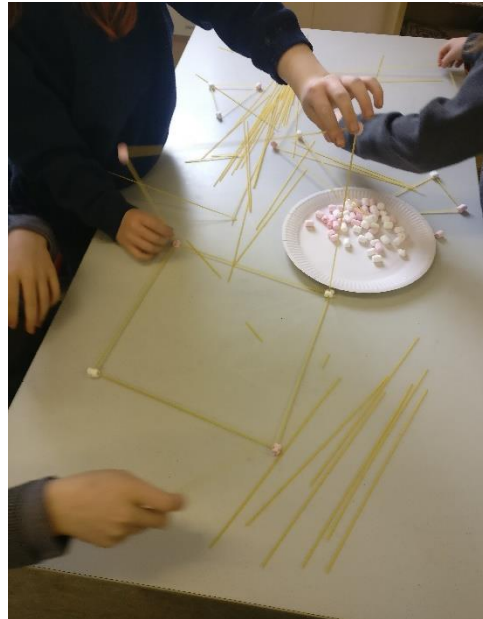


Step 3 – Engineering

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Science and Engineering

Rang a 2 – Amazing Triangle



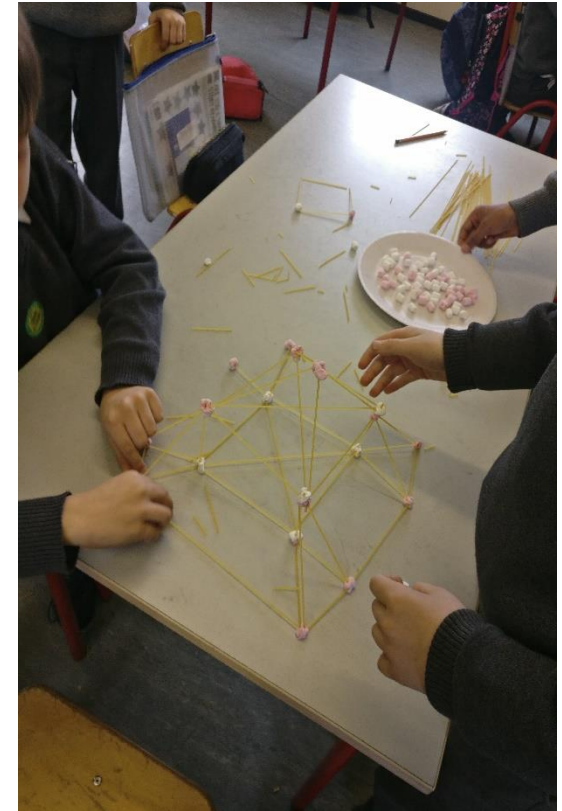
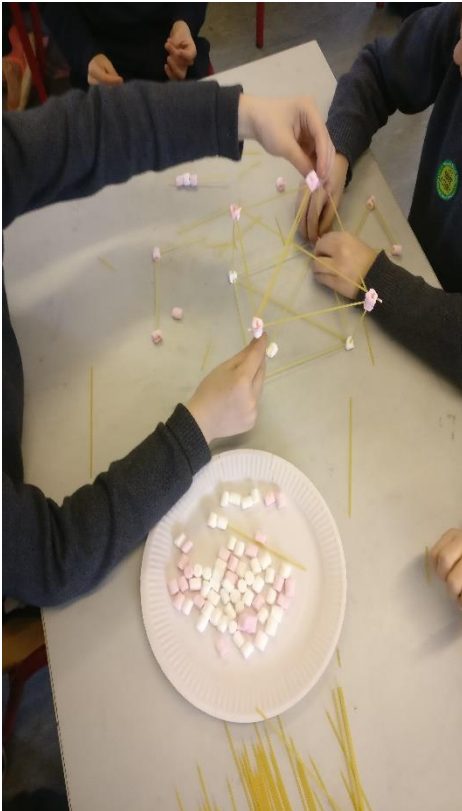
Linked to maths and Engineering

Step 3 – Engineering

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Science and Engineering

Rang a 2 Amazing Triangles



Linked to maths and
Engineering

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Step 3 – Engineering

Building a cardboard Chair

Mr Kenny's 4th Class students were very busy this week with 'Engineers Week'. Our challenge was to design and build a cardboard chair with no glue or tape or anything. This proved a very difficult challenge, but all the students brainstormed together and came up with amazing models!



Step 3 – Engineering

Making Cupcakes with Playdough

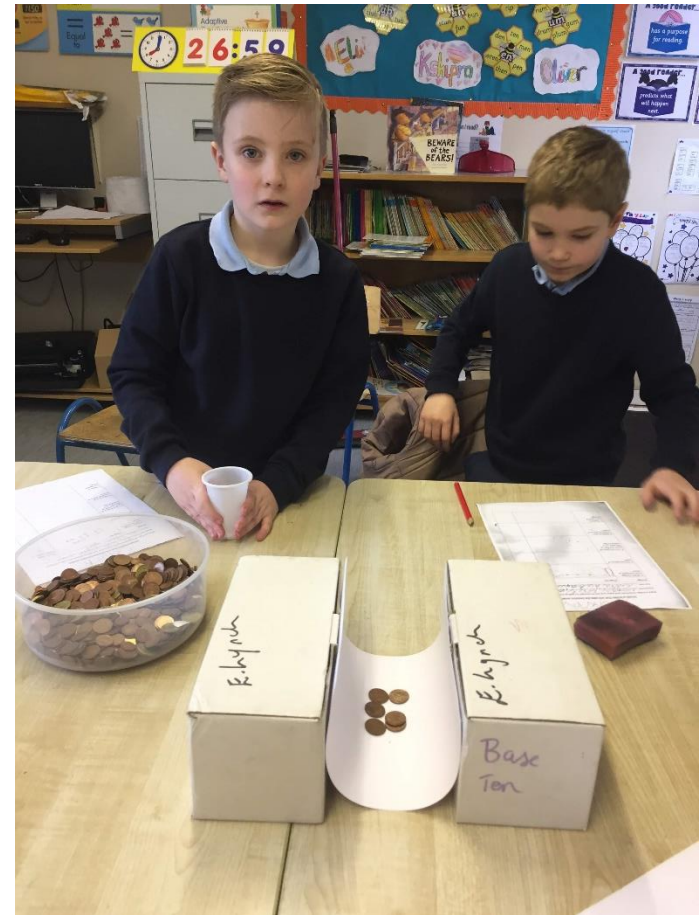


Linked to maths and Engineering

A student preparing for baking real cupcakes by discussing ingredients, how to make them, designing and decorating them using playdough first with the help of her assistant.

Step 3 – Engineering

2nd Class Designing and making the strongest bridge

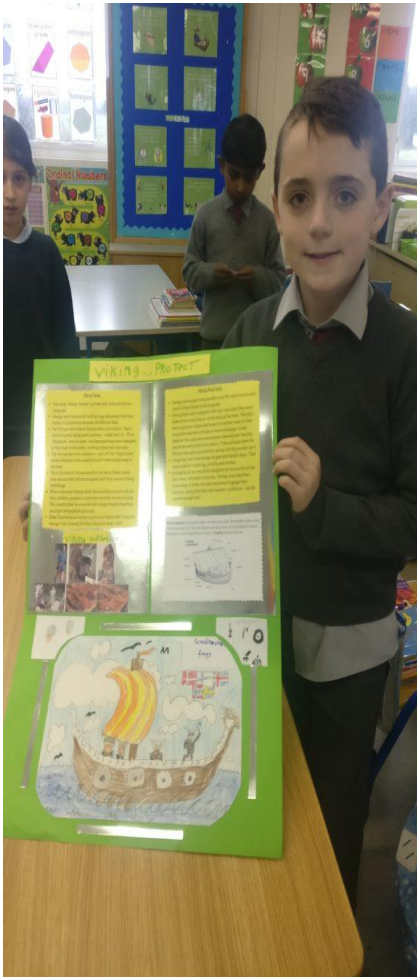


Building a bridge

Ms McLaughlin's and Ms Dillon's 1st classes working as civil engineers for Engineer's week. Their task was to build a bridge to hold half a pound or just over 200g of weight using only spaghetti and elastic bands. One group managed to put 700g of weight on their structure!



3rd Class Constructing Viking projects



Step 3 – Engineering

3rd Class – Easter Chicks



3rd class were learning how to make pom-poms in Art. They had to bring in some old cereal boxes and Ms Molloy bought some yellow wool. Pictured below are their wonderful little Easter chicks.



3rd Class – Easter Chicks



Step 3 – Engineering



5th Class - Christmas Log Making



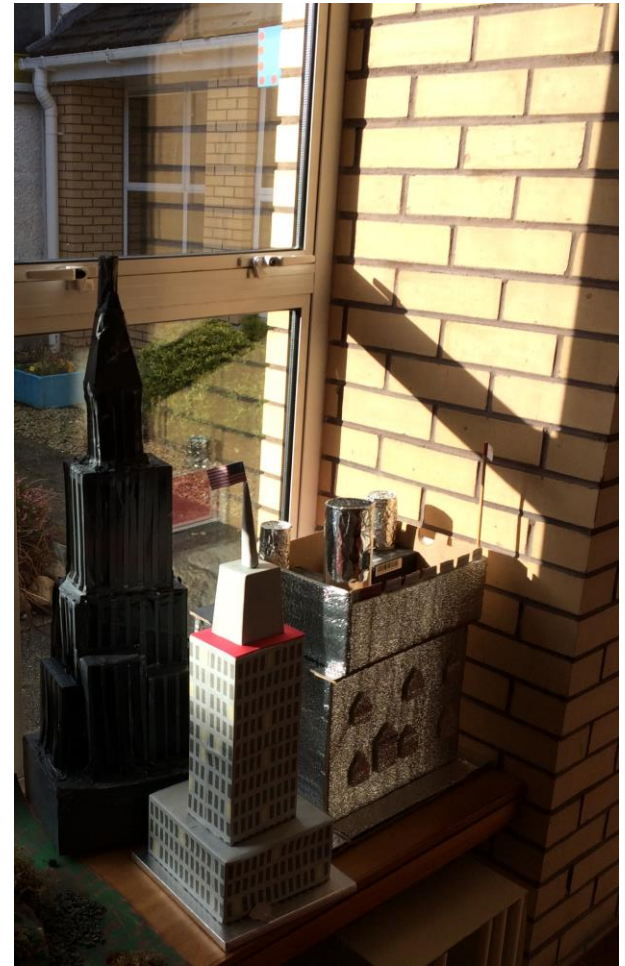
5th Classes, teachers, helpers, parents & grandparents who were involved in the Christmas Log making. The logs were cut, holes drilled in them for candles, holly & they were then decorated with moss, ribbon and selected decorations chosen by the students.

Step 3 – Engineering

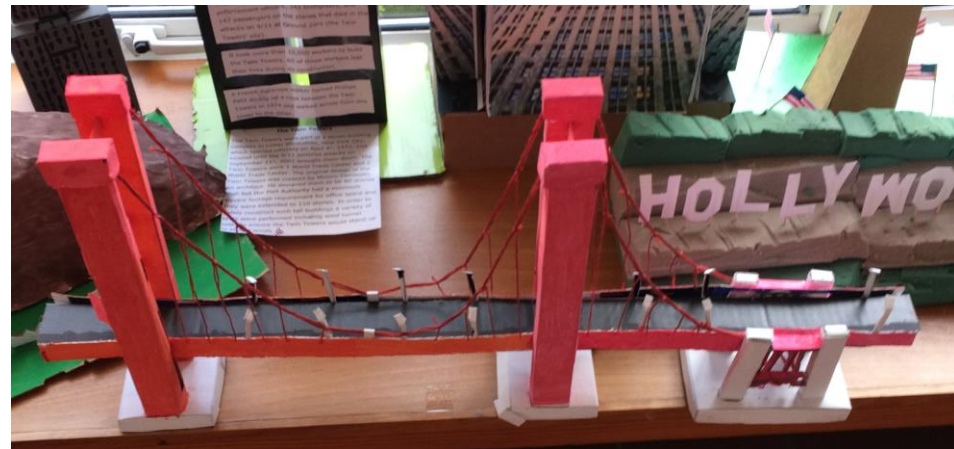
5th Class - Christmas Log Making



Rang a Sé designed and made models of important landmarks of the USA



Rang a Sé designed and made models of important landmarks of the USA



Rang a 5 went to a show at the LYIT for Engineers week called 'Who Wants to be a Superhero' – They explored different types of engineers



'Who Wants to be a Superhero'



Rang a 5 designed and made a city out of recycled materials for their Irish Aid Project on Global Goals



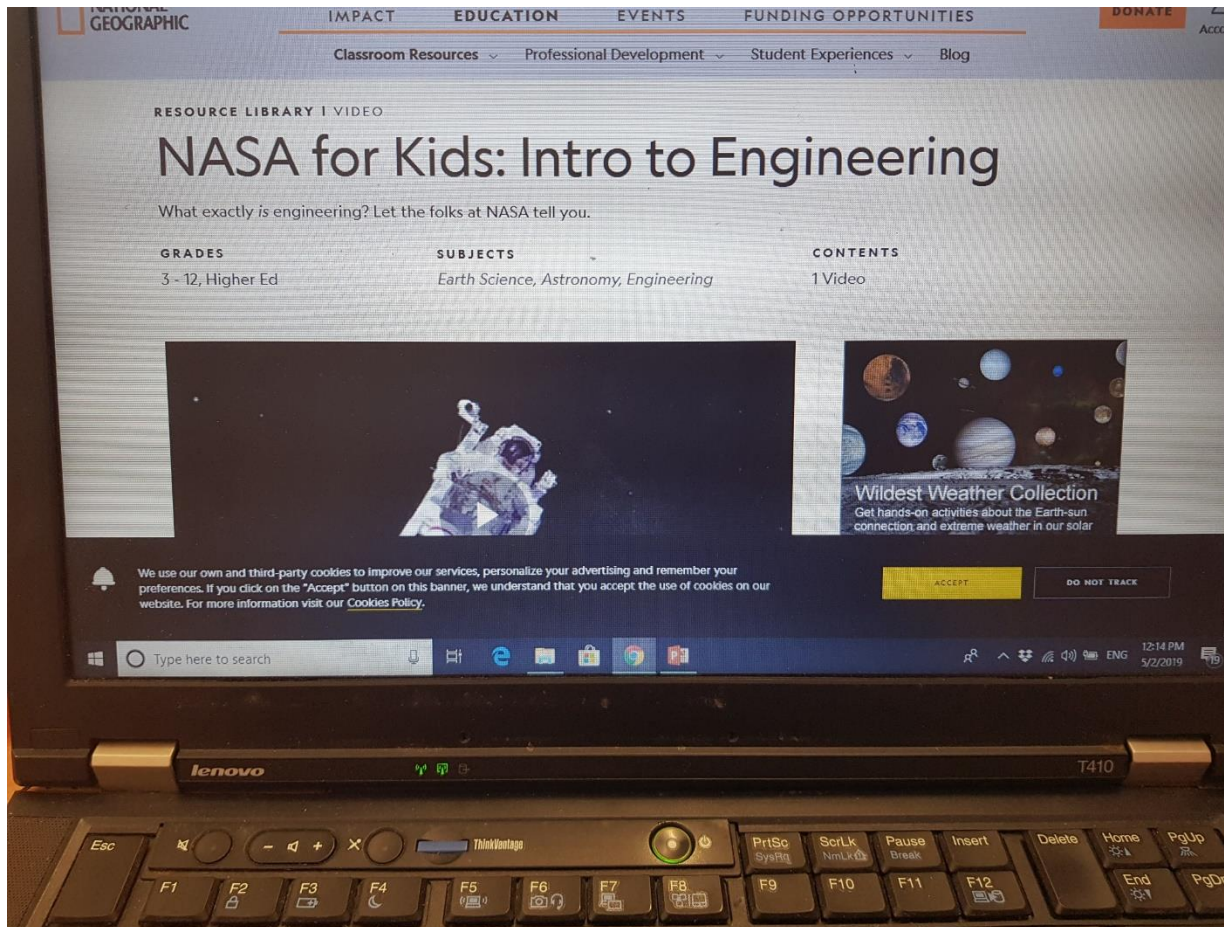
Irish Aid Project on Global Goals



STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

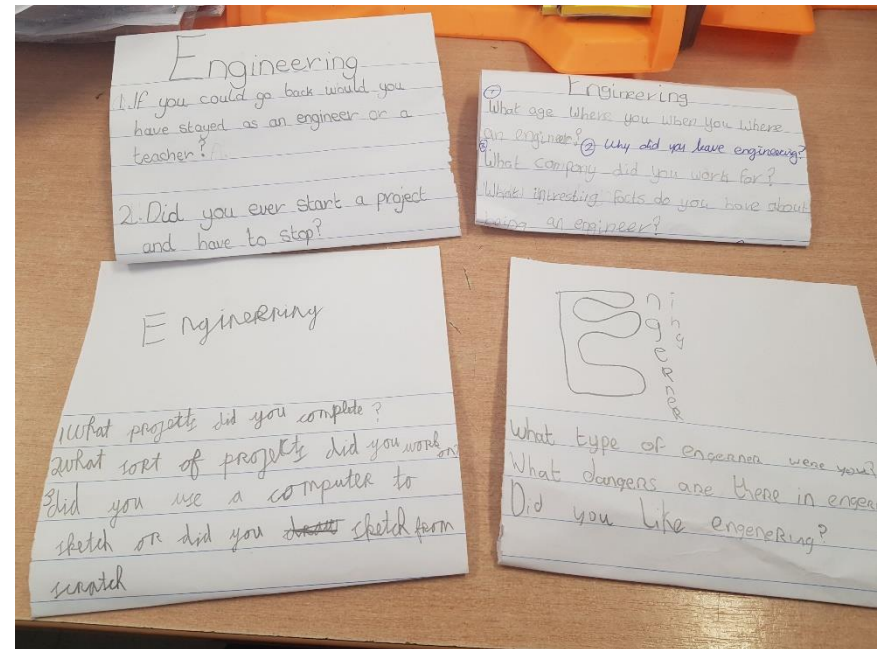
Step 3 – Engineering

Children research 'What is an Engineer?'

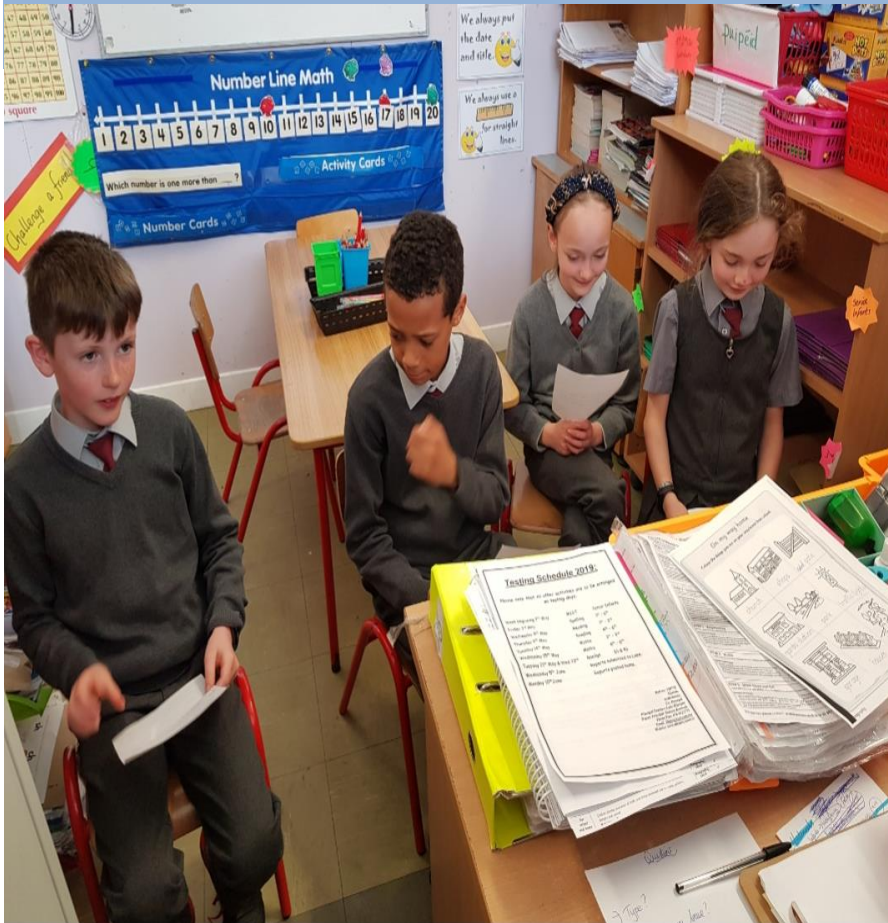


4TH Class Interviewed an Engineer Mr Maguire from Arup

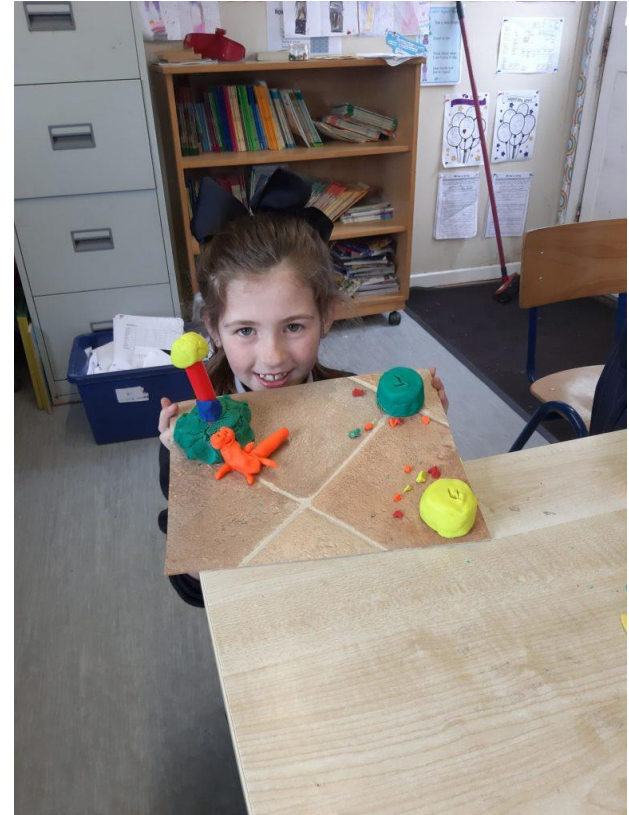
- 4th class interviewed Mr Maguire a past engineer and now a former teacher in our school. It was recorded and below are the questions the students thought of.



Interviewing Mr Maguire who worked for ARUP,
one of the largest engineering consulting firms in Ireland.



Children made models of the setting of 'Fantastic Mr Fox' by Roald Dahl.



Children made models of the setting of 'Fantastic Mr Fox' by Roald Dahl.

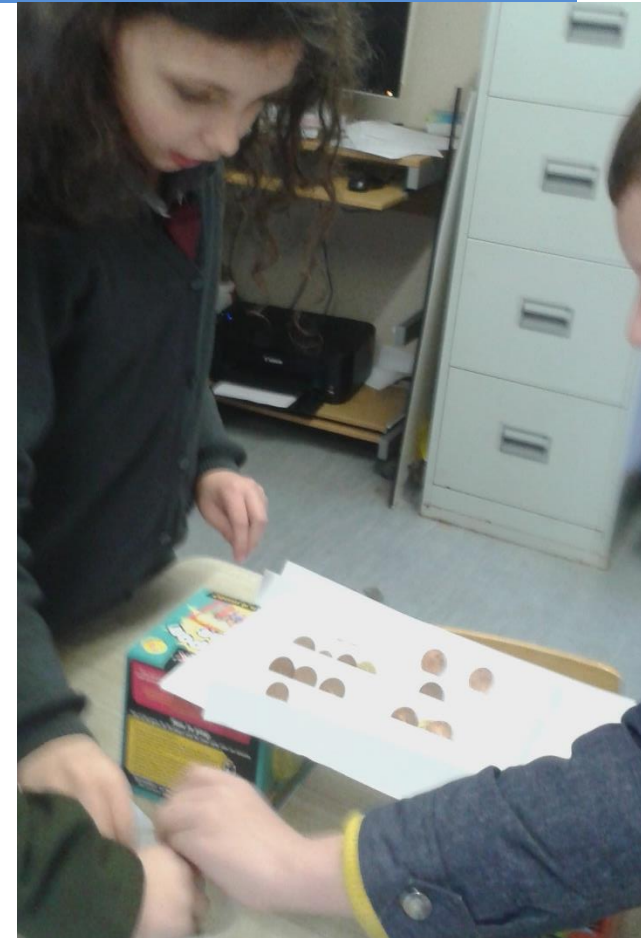
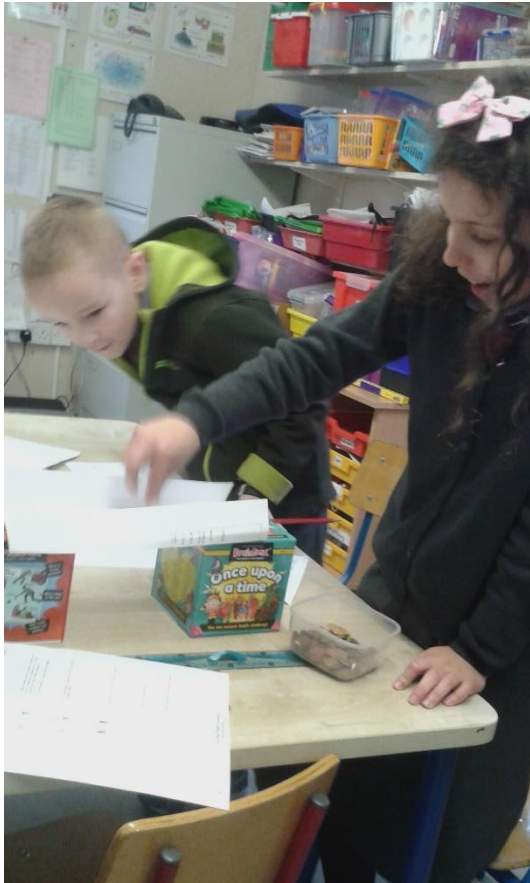


Engineers Week 2019

Rang a 6 – Making an Electromagnet



Design and make a Bridge- Rang a 2



Step 3 – Engineering

Maths

Junior Infants using Maths skills to determine size and weight of bears



Step 4 – Maths

3rd Class Weight



Investigating Slopes, Lines & Angles



Step 4 – Maths

Rang 2

Making Cookies: Weight & Measuring



STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Step 4 – Maths

Rang 6 Making Apple Bread

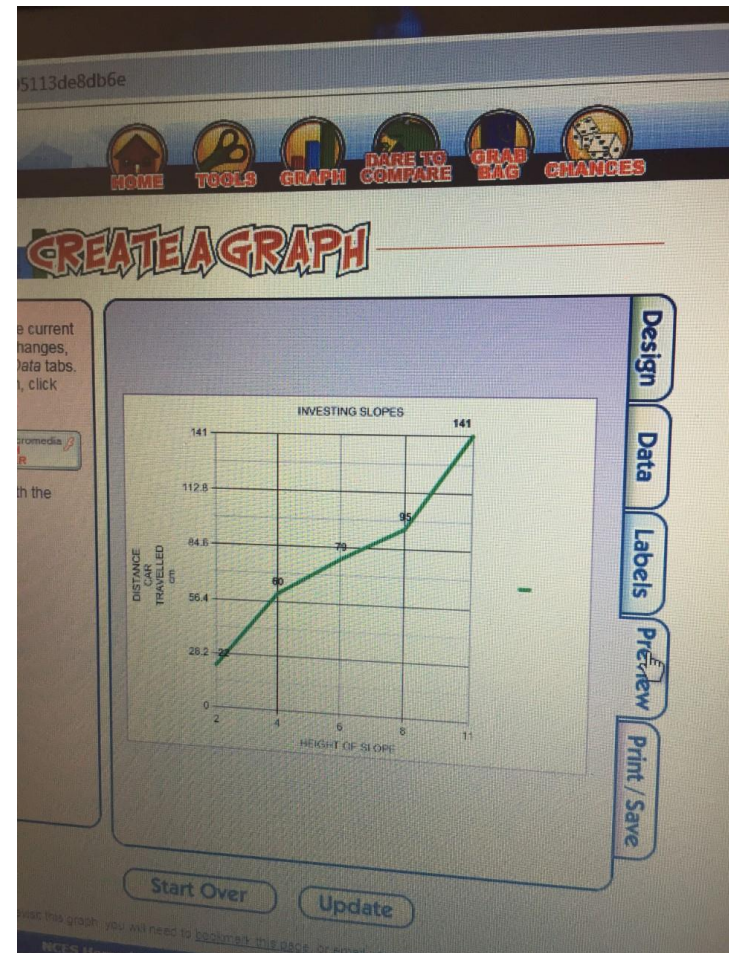
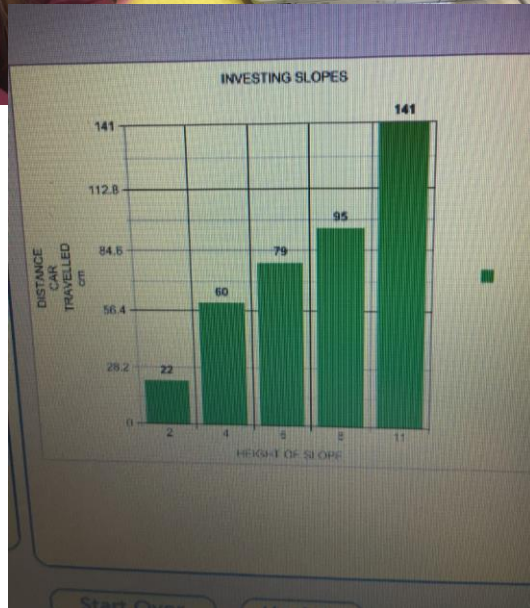
Weight & Measuring



Step 4 – Maths



Rang a 6 Compiling Graphs based on investigating slopes experiment



Completing Maths Trail Around Our School



Identifying 2-D and 3-D shapes in the school environment



Spotting number patterns in playground games

Completing Maths Trail Around Our School



Problem Solving



THIRD AND FOURTH CLASS MATHS TRAIL 2014 Team name _____

Can you find an example of each of these 2D and 3D shapes and write down where they are.

A triangle _____

A square _____

A rectangle _____

A semi- circle _____

A circle _____

A hexagon _____

An octagon _____

A cuboid _____

A cone _____

A cylinder _____

A sphere _____

The length of the two playgrounds is 60 metres and 32 metres. Find the difference between the two

What fraction of the schools classrooms are inside? Do not include learning support rooms, offices, computer room. _____

If we had lunch time half an hour later what time would break be? _____

Estimate and then count the number of windows around the outside of the building. My estimate _____ actual number _____

Estimate and then count the number of doors around the outside of the building. My estimate _____ actual number _____

Multiply the number of flower pots\tyres by 8. _____

Write down all the odd numbers that you can see around the outside of the school.

Write down all the multiples of 2 up to 20. _____

If you share 116 pupils equally between the third and fourth classes. How many pupils would each class have?

FIFTH AND SIX CLASS MATHS TRAIL 2014 Team name _____

Can you find an example of each of these 2D and 3D shapes and write down where they are.

A triangle _____

A square _____

A rectangle _____

A semi- circle _____

A circle _____

A hexagon _____

An octagon _____

A cuboid _____

A cone _____

A cylinder _____

A sphere _____

Estimate then calculate the actual perimeter of the main playground.

My estimate _____ actual perimeter _____

Estimate then calculate the actual area of the main playground.

My estimate _____ actual area _____

What fraction of the schools classrooms are inside? Simplify your answer.

Estimate and then count the number of square windows around the outside of the building.

My estimate _____ actual number _____

Multiply the number of outside doors with the number of outside windows. _____

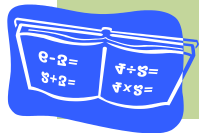
Name and estimate the size of the angle on the slope outside Ms McGee's prefab.

Calculate the percentage of blue cars. _____



STEM Log Evidence, Scoil Naomh Fiachra

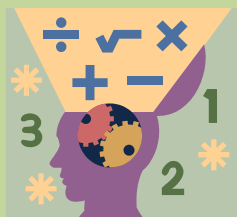
2019/DSM/662



All classes completed maths trails on maths week – Here are some examples of the trails

INFANTS MATHS TRAIL 2014

Team name



Take a picture of 5 different squares

Take a picture of 1 semi circle

Take a picture of 2 different circles

Take a picture of 3 different rectangles

Count the number of windows on the front of the school building. How many are there?

Take a picture of something - green, black, white, grey, yellow, red, orange, purple, blue and brown

Count the number of full square windows on the front of the building. How many are there? _____

How many different shapes are there on the first aid door? Circle your answer – 1, 2 or 3?

Find a pattern and take a picture of it

Stand in front of infant bench in infant yard. Take 5 steps forward, turn left, take seven steps turn right. Take a picture of what you can see

FIRST AND SECOND CLASS MATHS TRAIL 2014

Team name

Using the length of your hand estimate the length of the bench in the front of the school. Then measure using the length of your hand

My estimate is _____

Actual length in hands is _____

Can you find an example of each of these 2D shapes and write down where it is

A triangle _____

A square _____

A rectangle _____

A semi- circle _____

A circle _____

A hexagon _____

An octagon _____

How many wooden benches are there? _____

Estimate and then count the number of rungs outside Mrs Ferry's 1st class prefab?

My estimate is _____ Actual number _____

How many kerbing blocks around the lower senior yard? _____

Estimate and then count the number of windows around the outside of the building.

My estimate _____ Actual number _____

Estimate and then count the number of doors around the outside of the building. (exclude prefabs and windows attached to doors)

My estimate _____ Actual number _____

How many tens and units in the number on Ms Horkan's' door? _____

Write down all the odd numbers that you can see around the outside of the school.

On the back of your sheet draw and colour in half of the bird table.

Maths Week - Ireland



Maths Week Activities

Activity 5: Legs, Legs, Legs

Resources: A variety of concrete materials to support pupils

Strands: Problem solving, addition, subtraction

Activity: Display and read aloud this problem to pupils:

Some dogs and ducks were in the garden. There were ten legs altogether in the garden, how many dogs and ducks might there have been? Explain your answer. Allow pupils time on their tables to count out ten objects to represent the legs and explore how many of each there might have been.

Then ask what if there were only ducks in the garden and still ten legs how many ducks would there be? Allow time for pupils to explore this and ensure they can explain how they know there would be five ducks.

Questions: How many legs does a dog/duck have?
Could you write a sum to show how many dogs and ducks you have?

Challenge Questions:

- Could there be only two dogs in the garden if there were ten legs? Explain your answer.
- Could there only be dogs in the garden? Why/why not? Show me.
- Could you have a total of nine legs in the garden with dogs and ducks? Why/why not?

Step 4 – A selection of some Maths Activities

Maths Week Ireland
1st and 2nd Class Resource Pack for Maths Week

This pack contains five activities that are suitable for either 1st or 2nd class pupils. The numbers in the questions may have to be adapted to suit the class and the time of year that they are completed. These five activities are suitable for use in the classroom but can be adapted for use outdoors.

Prior to completing the activities teachers should pre-plan their questions ensuring that the questions they ask will promote mathematical thinking. Examples of questions are given with each activity but the list below also shows some question stems:

- Explain how you....
- What would happen if I changed this number....
- Is there another way you could do it? Show me.
- If you did it again what would you do differently/keep the same?
- Draw it.

One of the main emphasis of these activities should be on **language** and allowing pupils to talk about what they are doing using the correct mathematical vocabulary. The teacher needs to lead by example by always modelling the correct language and reason their own mathematical thoughts out loud.

Maths Week Ireland
What's the question? (3rd and 4th Class)

Resources: A variety of concrete resources to support pupils

Strands: Addition, subtraction, multiplication, division, fractions, decimals.

Activity: Give pupils any number between one and ten, for example, 6. Explain that '6' is the answer but you do not know what the question is. Ask pupils what the question might have been if it was an addition question? What if it was a subtraction question? How about a multiplication or division question? Give pupils the opportunity to come up with lots of different possibilities for what the question might have been using different operations.

Questions: What other multiplication question might it be?
Can you think of another one?

Challenge Questions:

- Have you found all possibilities? How do you know?

Maths Week Ireland
Ten Frames (Junior and Senior Infants)

Resources: Ten blank frames for each pupil, a barrier, ten counters for each pupil

Strands: Counting, position and direction

Activity: Children should work in pairs and each child will need a ten frame and ten counters. They will need a barrier between both of their ten frames. Child A places some of the counters on the ten frame and child B must ask questions about the position of each counter and must try to replicate what their ten frame looks like. Child A can only answer yes or no. Pupils then swap roles and repeat.

Questions: Are there some counters in the top row?
Is there a counter in the second box on the top row?
Are there seven counters in total?

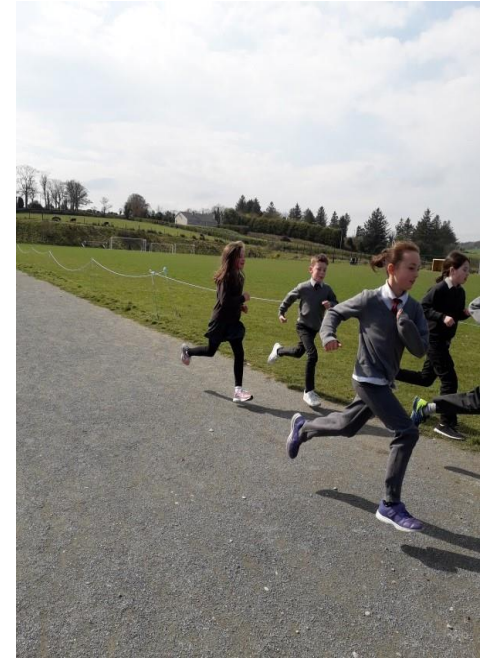
Challenge questions:

Step 4 – Maths

3rd Class run their First Marathon

42 Kilometres

Since September 2018, 3rd Class have been running one kilometre a day. When they started off in September, some found it really hard to even walk around the track once. Each week, they got better and they eventually ran their first marathon in April 2019 reaching 42 kilometres.



Height and Shoe size Survey and Graph

Rang a 6

A scientific survey

5/09/18 Experiment: Height and shoe size survey

Equipment: Tape measure

Method:

1. Begin by measuring the height of each person in your group.
2. Record results on a chart.
3. Measure each person's foot and record result on same chart.
4. Discuss whether there is a connection between a person's height and their shoe size.

Predictions: I predict that there is not a connection.

Name	Height	Shoe size
1. Adam (mc)	153 cm	shoe size: 6
2. Aaron	171 cm	shoe size: 8
3. Ava Jia	146 cm	shoe size: 3
4. Jia Ava	150 cm	shoe size: 4

Result: After carrying out this experiment I discovered that there was no connection.

same result!



link– Science
– Living
Things

Step 4 – Maths

3rd Class observe and tally the volume of traffic passing the school

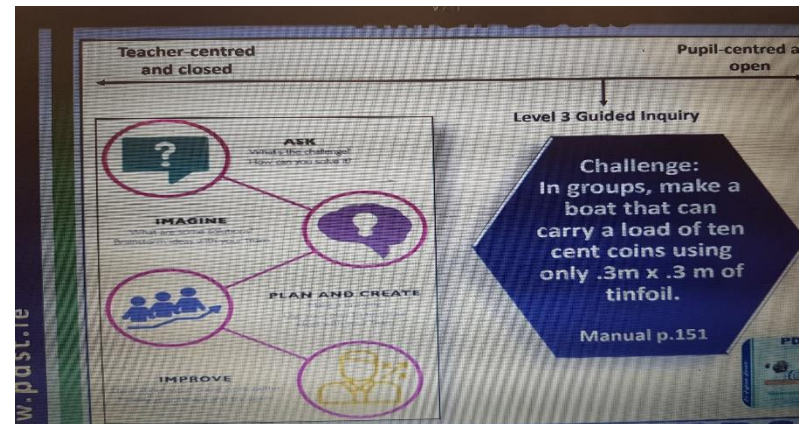
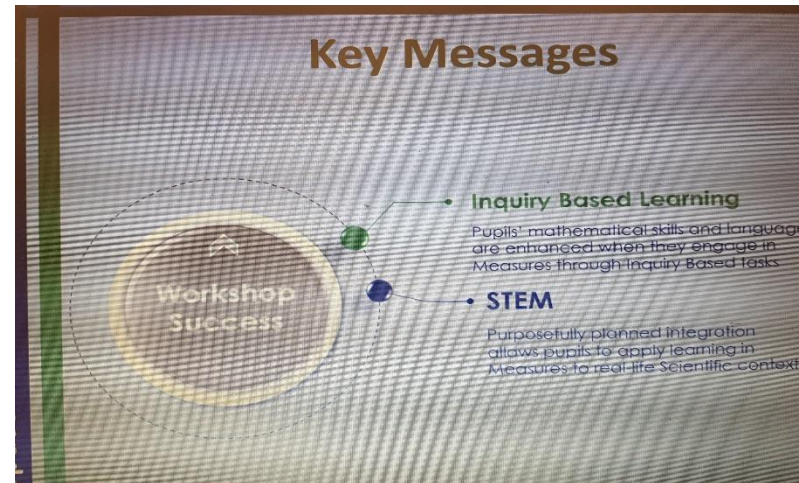
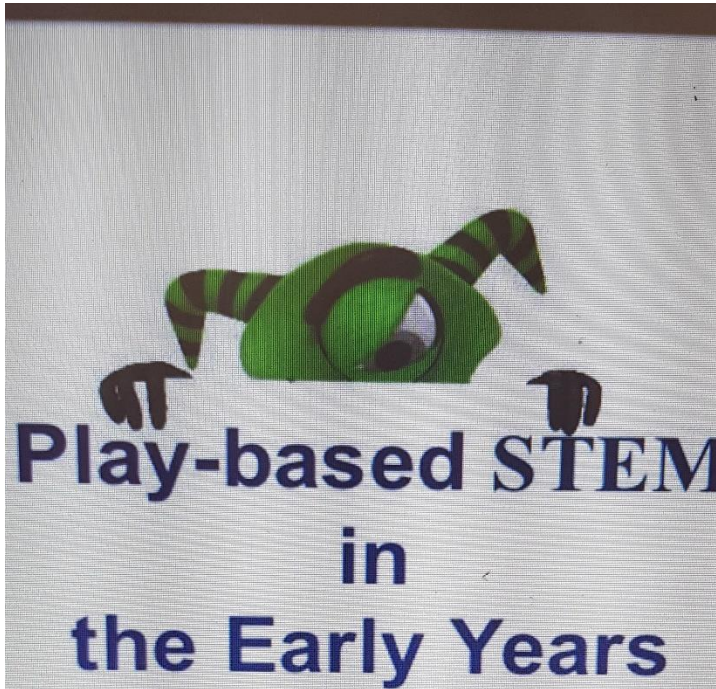


Questions	Answers
<ul style="list-style-type: none"> Name of road Date Time Estimate width of road What is the road made of? Is there a junction nearby? What traffic signs are nearby? 	N56 9/03/19 2.45 5m tar yes
<ul style="list-style-type: none"> Before your survey, estimate how many vehicles will pass in 10 minutes. 	
<ul style="list-style-type: none"> For 10 minutes, count how many of these forms of transport pass your school. Cars Lorries Vans Buses Motorbikes Cyclists 	
What is the total number of vehicles that passed in the 10 minutes?	180
Compare how close your estimate was to the actual total.	



PDST Maths-Stem Staff Training Day

Promoting the use of STEM for measurements in Maths



Step 4 – Maths

2 Members of staff attend CPD For STEM



STEM Learning is the largest provider of education and careers support in science, technology, engineering and mathematics(**STEM**).

Courses give **teachers**, technicians and volunteers the ability to take professional development into their own hands and learn wherever and whenever suits their busy schedule.



STEM SHOW AND TELL

5th Class Demonstrating a Lava Lamp to 3rd Class



Step 5 – Show and Tell

STEM Log Evidence, Scoil Naomh Fiachra
2019/DSM/662

Showing Magic Milk Experiment



Showing Magic Milk Experiment



2nd Class show 3rd Class 'The Canister Rocket Experiment'



Step 5 – Show and Tell

Rang a 5 demonstrating Acids and Bases using Litmus paper to 3rd Class



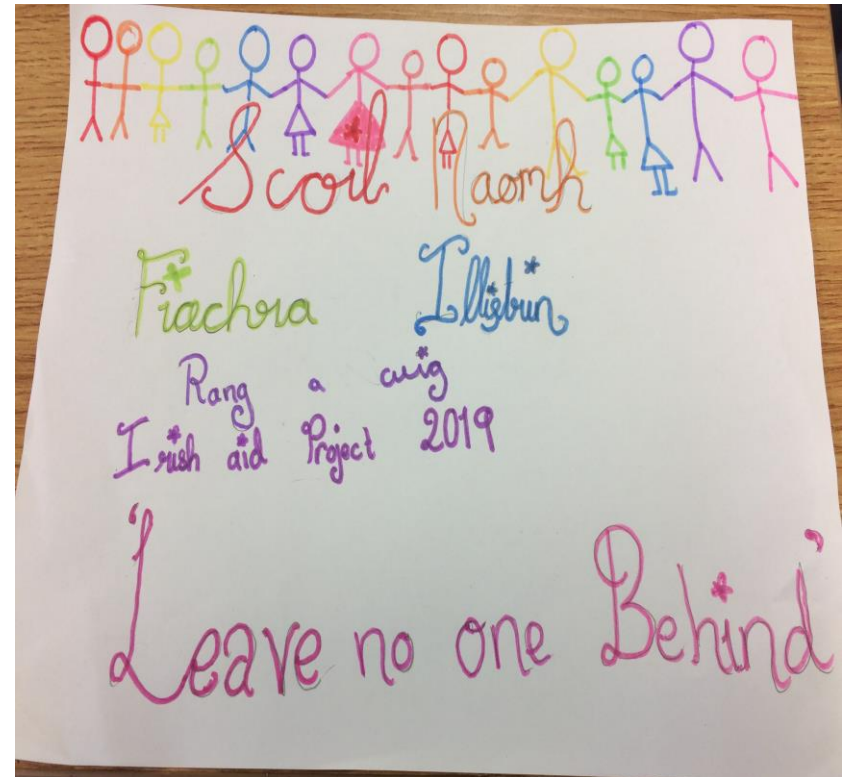
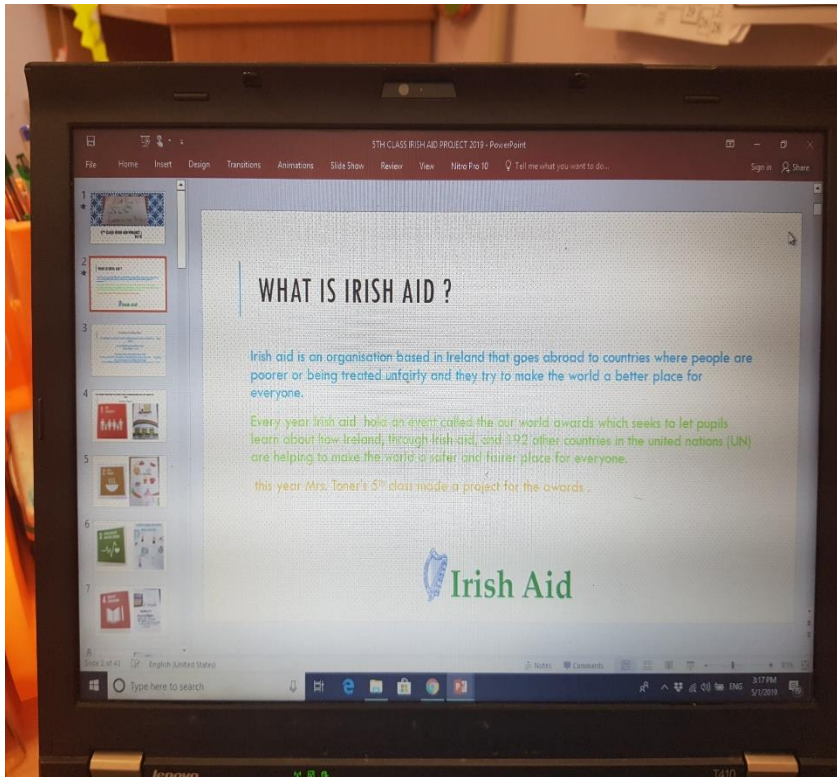
Rang a 6 demonstrating 'The Canister Rocket' Experiment to 2nd Class



Rang a 6 demonstrating 'The Canister Rocket' Experiment to 6th Class



Rang a 5 – Showing the Irish Aid Powerpoint



Step 5 – Show and Tell

5th Class pupils presenting and explaining their Irish Aid Award Project on Environment & Sustainability to the school

