SCIENCE
Whole School Home Learning
Posters 2020
Our Diverse Planet

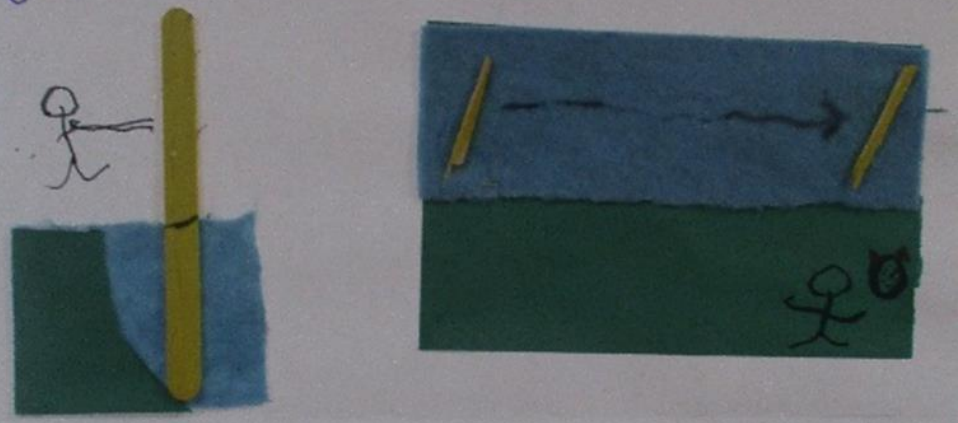
Foundation


Ladybirds
a Ladybird
eat
5,000
aphids

HYPOTHESIS

more water goes down the river after it rains

Test

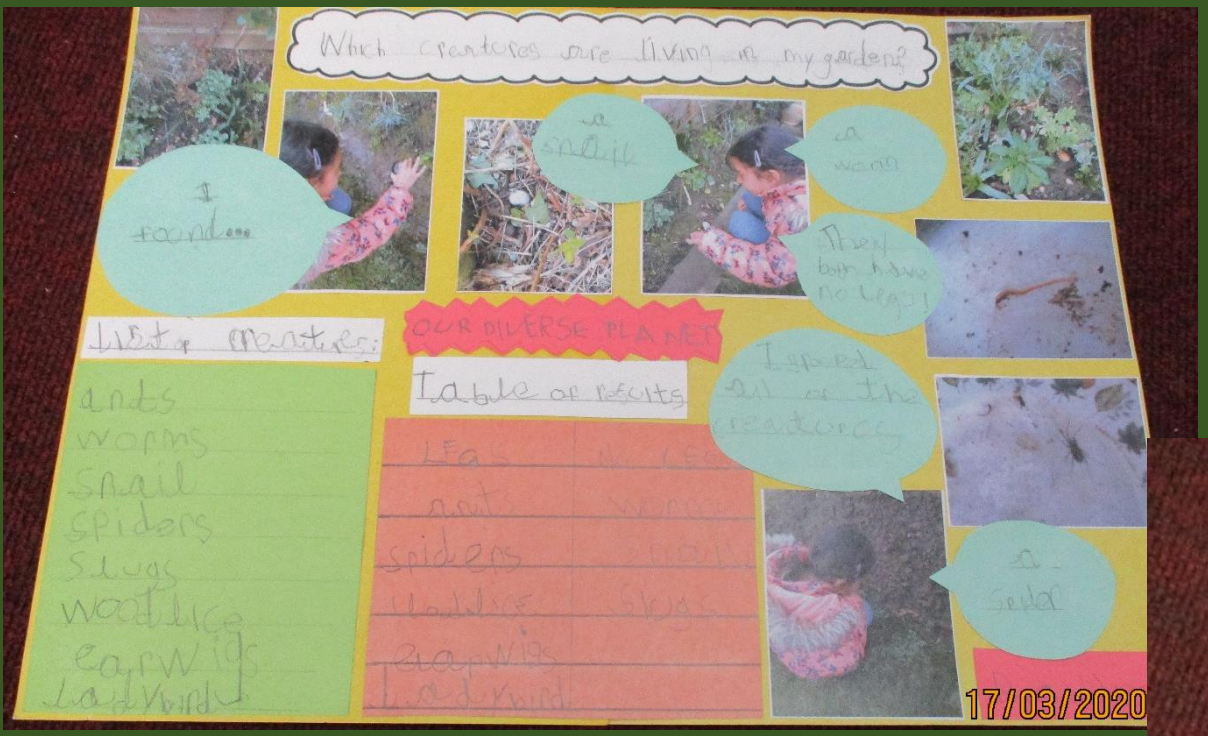


RESULTS

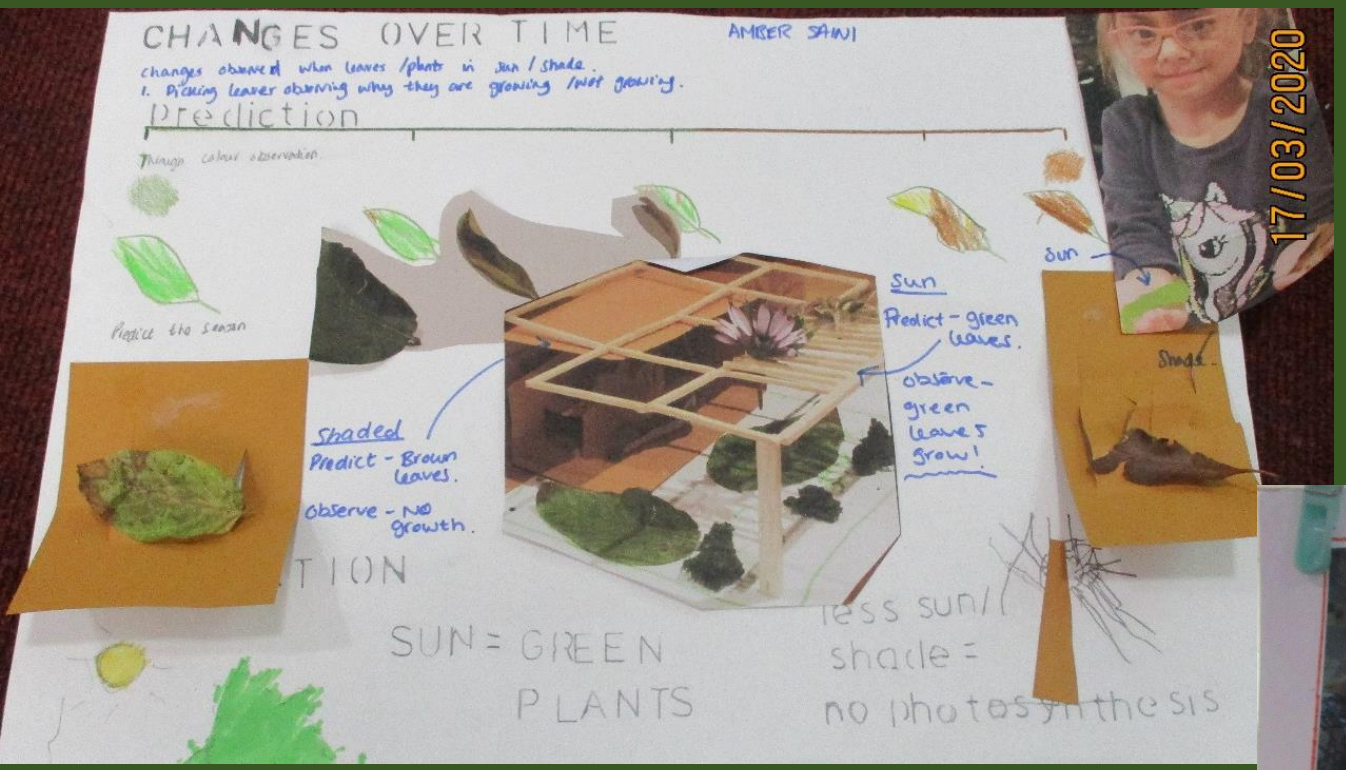
before rain	shallow slow	after rain	deep fast

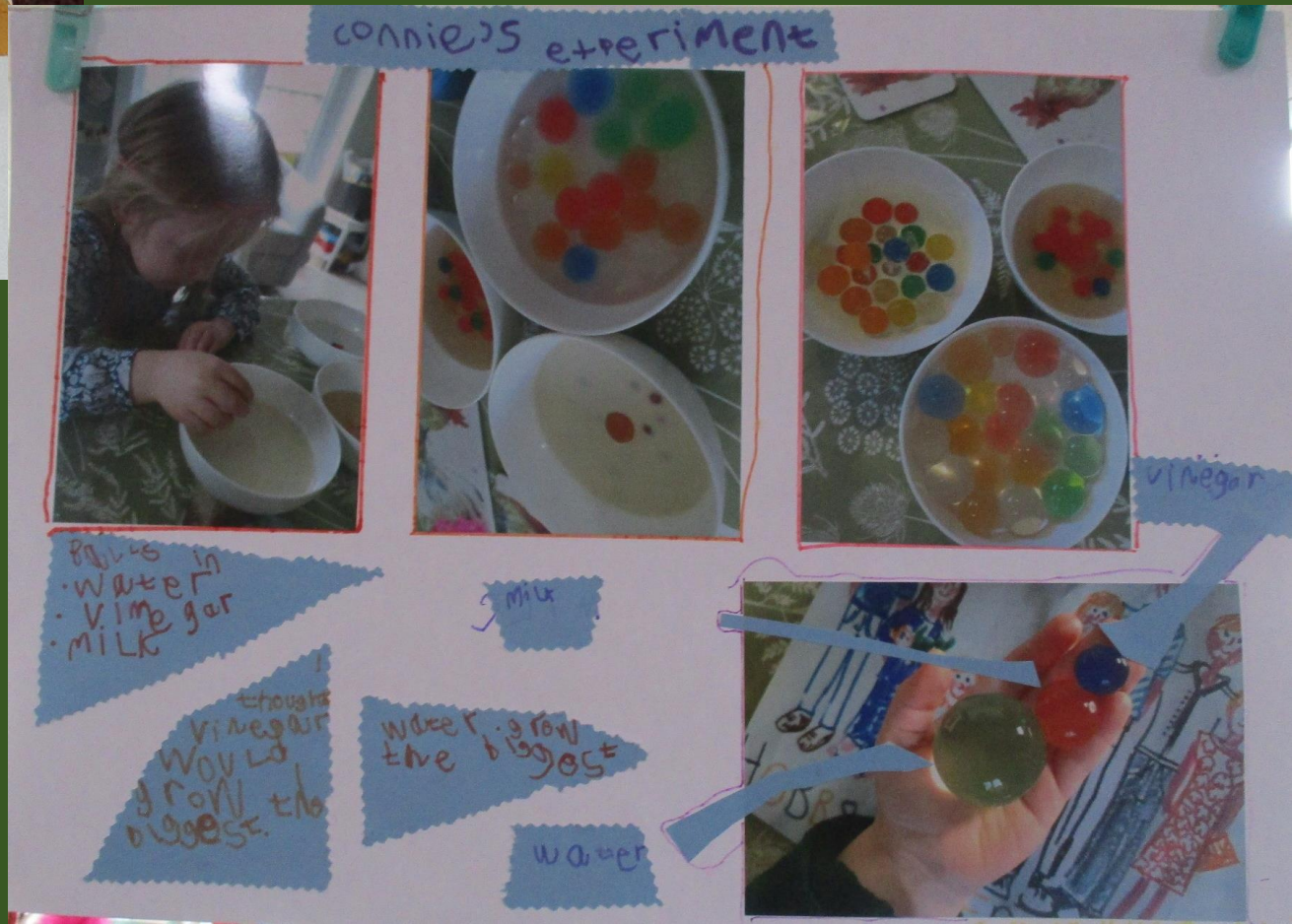
CONCLUSION

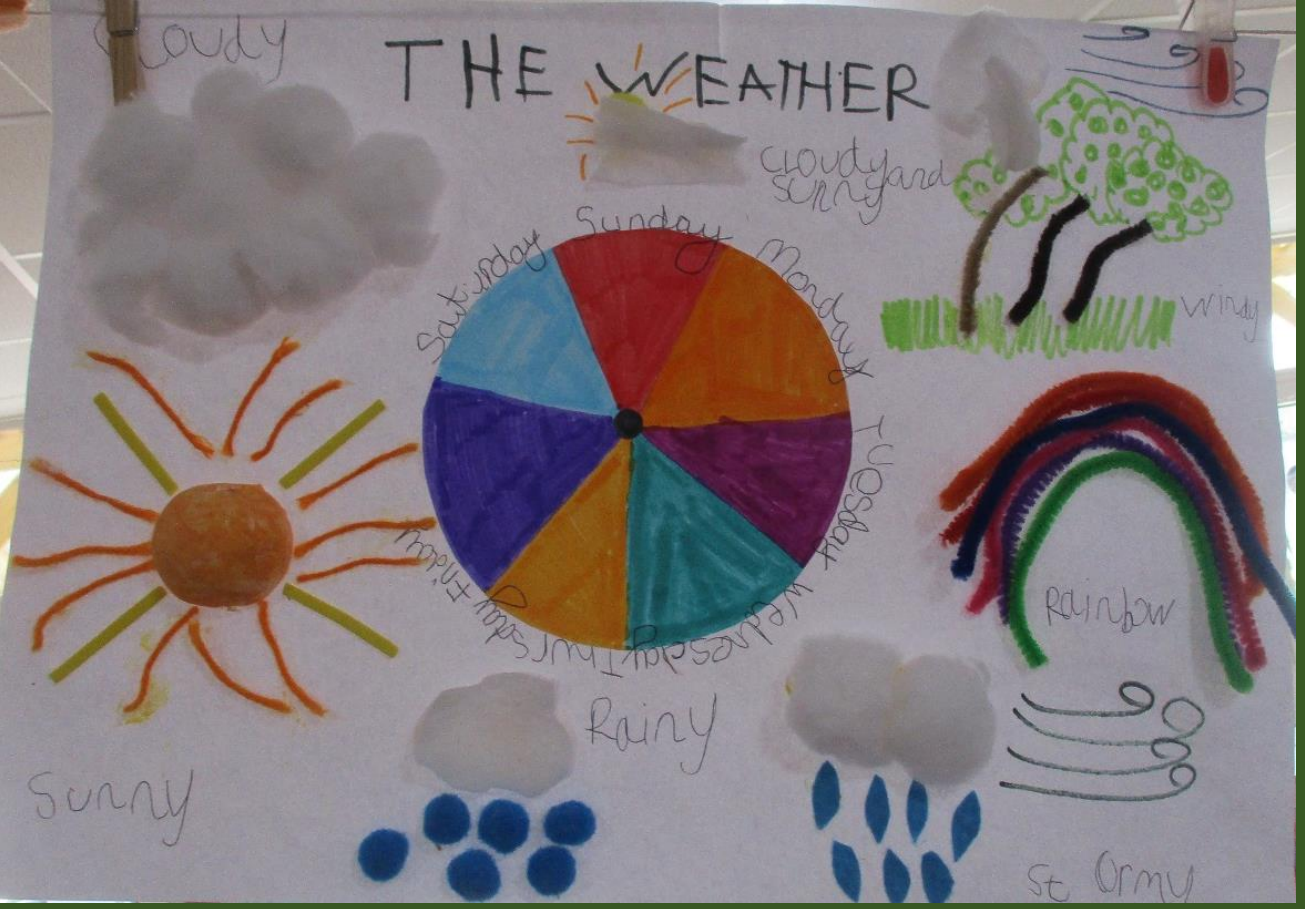
we were right

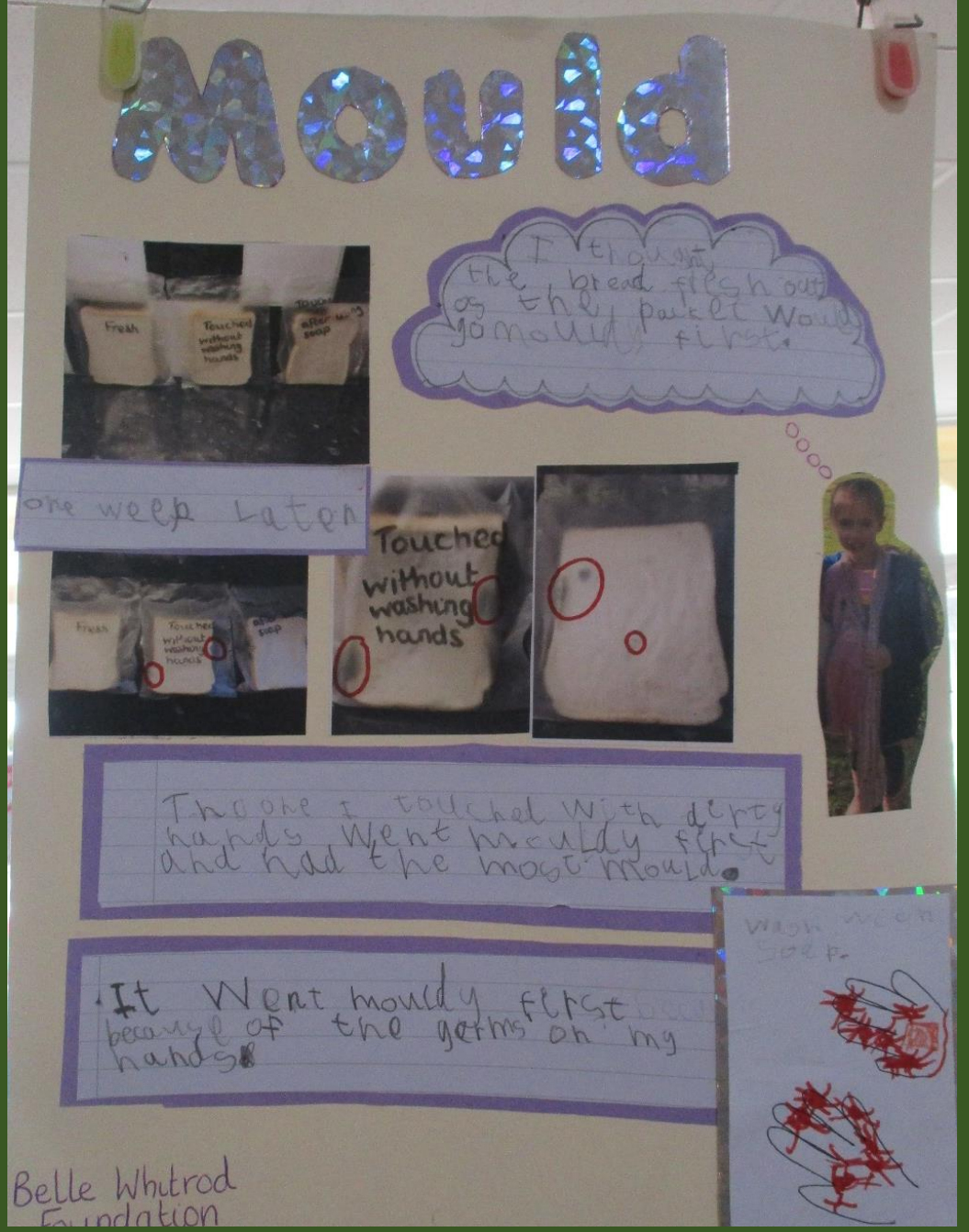

Which creatures are living in my garden?
I found one
a snail
a worm
They don't have any legs
OUR DIVERSE PLANET
List of creatures:
ants
worms
snail
spiders
slugs
woodlice
earwigs
ladybird
Table of results
I spied all of the creatures
a beetle
17/03/2020

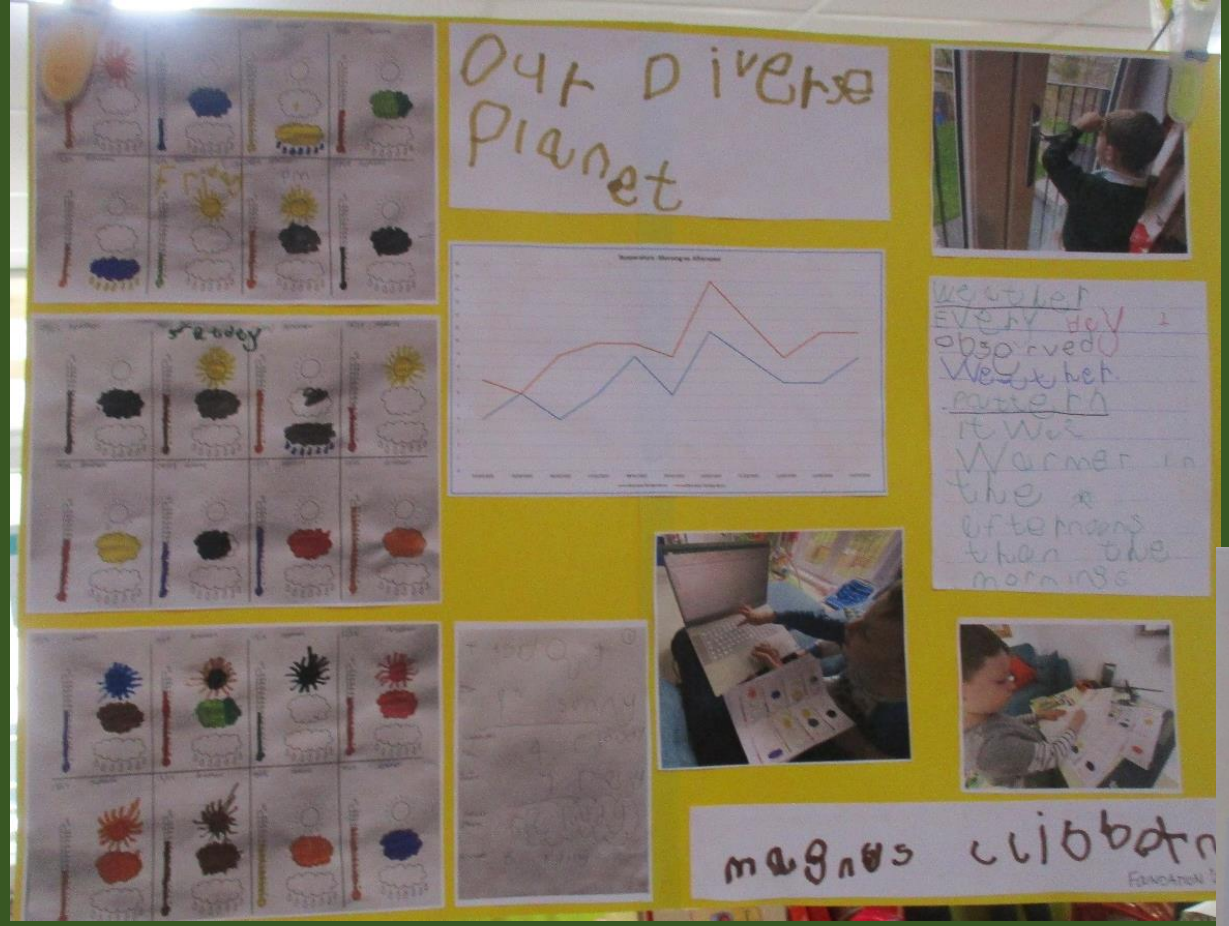

Does it float or sink?
Research
Sink
17/03/2020


CHANGES OVER TIME
AMBER SAHNI
changes observed when leaves/plants in sun/shade.
1. Picking leaves observing why they are growing/not growing.
prediction
Things colour observation
Predict the season
Shaded
Predict - Brown leaves.
Observe - NO growth.
Sun
Predict - green leaves.
observe - green leaves grow!
Sun
Shade
SUN = GREEN PLANTS
less sun/ shade = no photosynthesis
17/03/2020


connie's experiment
vinegar
Milk
water the biggest
water

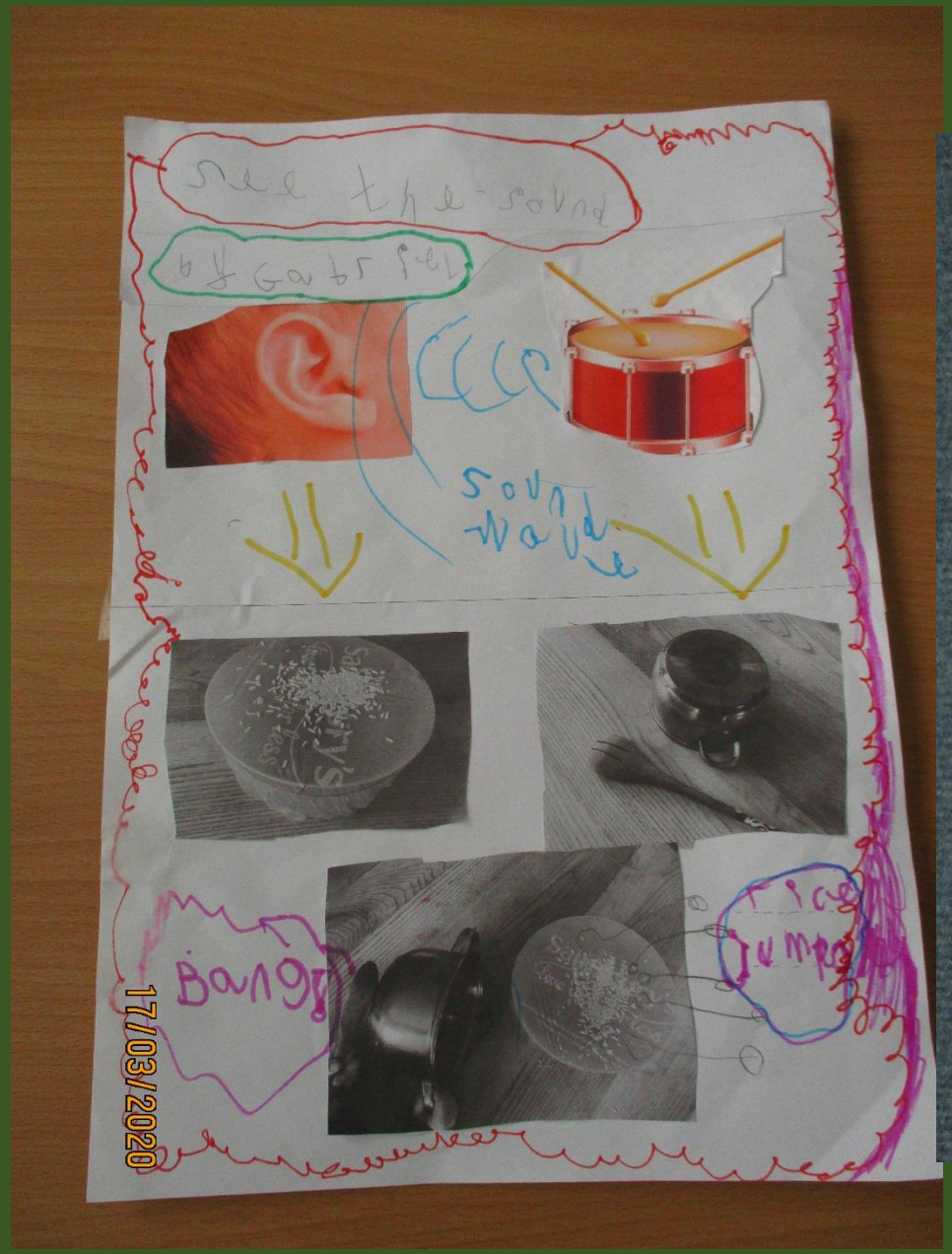

Cloudy
THE WEATHER
Cloudy and sunny
Windy
Sunday
Monday
Tuesday
Wednesday
Thursday
Saturday
Rainbow
Rainy
Sunny
St Ormy


Mould
I thought the bread flesh out of the packet would go mouldy first.
Fresh
Touched without washing hands
one week Later
Touched without washing hands
The one I touched with dirty hands went mouldy first and had the most mould.
It went mouldy first because of the germs on my hands.
Belle Whitrod

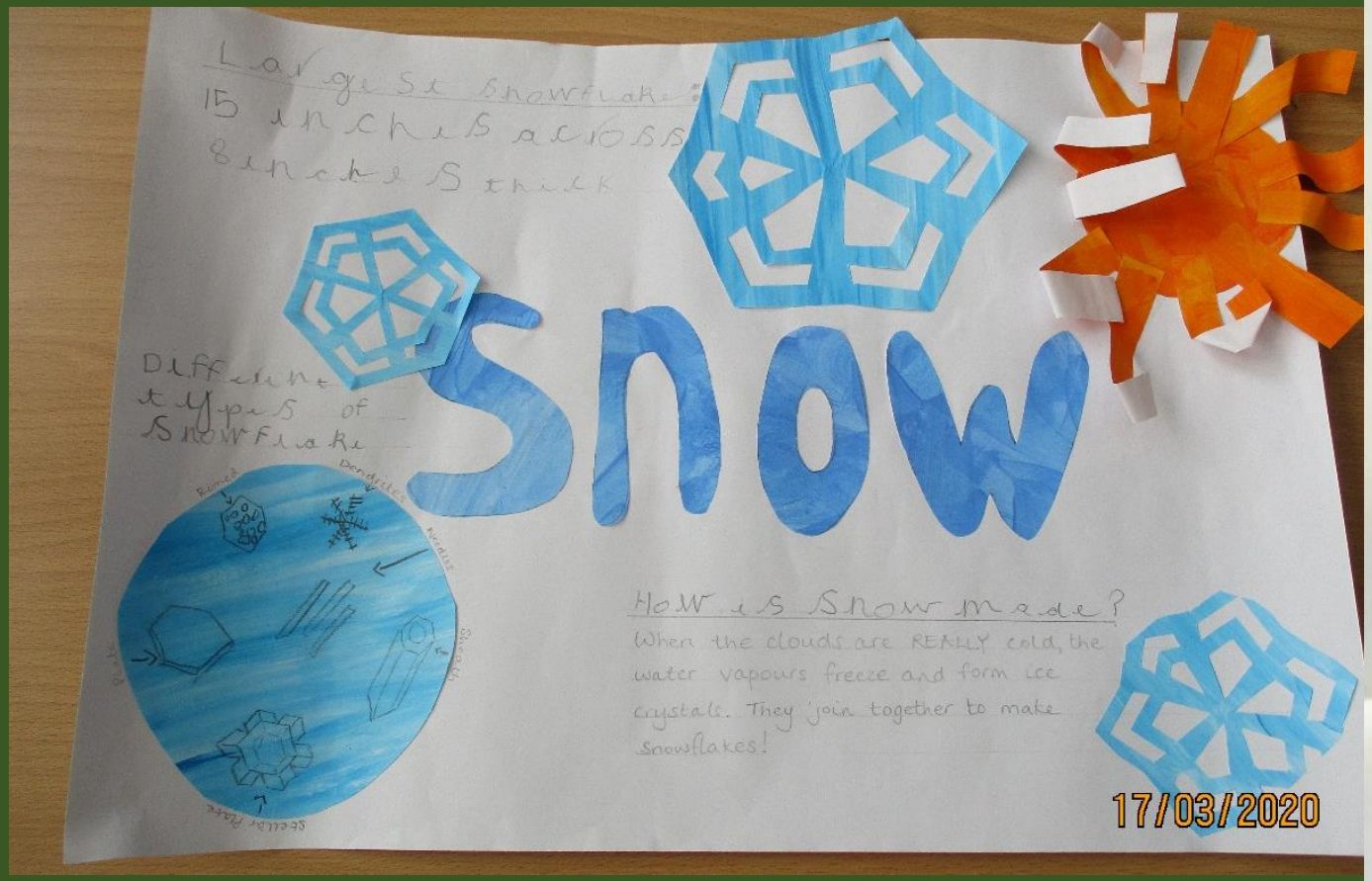

Our Diverse Planet
Friday
Monday
We observed every day
It was warmer in the afternoons than the mornings
magnets

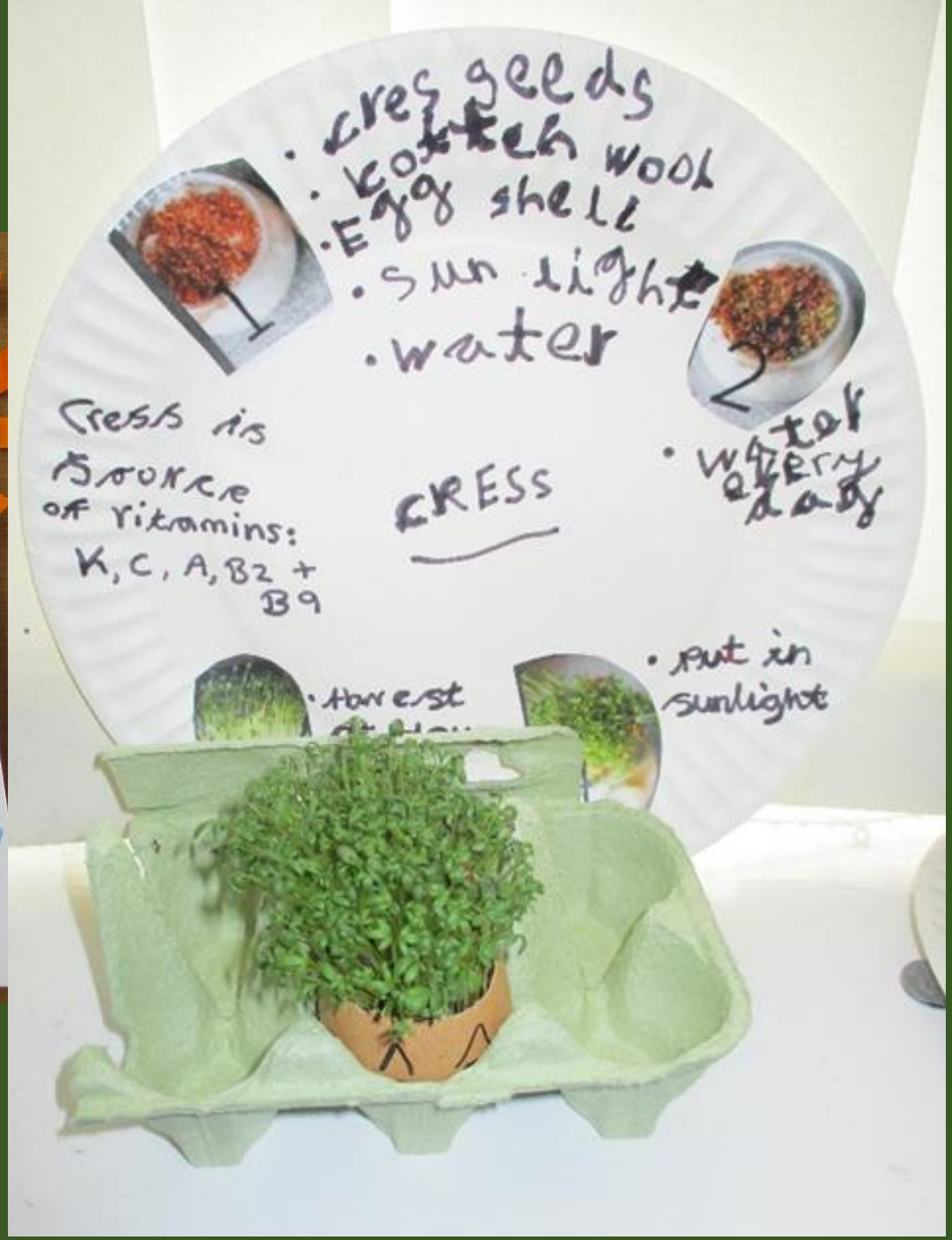

Science
Protect
day 1
Feels hard
Taste bitter
day 3
Feels
slightly sweet
day 7
Feels soft
taste sweet
day 10
Feels very squishy
I observed 3 diamonds for 10 boys
I scooped watt I found

Year One


sound
Bangs
17/03/2020


New
Waxing
Quarter
Gibbous
Moon Phases
Full
Waning
Crescent
Moon
17/03/2020


Largest Snowflake:
15 inches across
8 inches thick
Snow
How is Snow made?
When the clouds are REALLY cold, the water vapours freeze and form ice crystals. They join together to make snowflakes!
17/03/2020


cress seeds
cotton wool
Egg shell
sun light
water
Cress is a source of vitamins: K, C, A, B2 + B9
CRESS
water every day
harvest
put in sunlight

WHY DO CLOUDS MOVE?

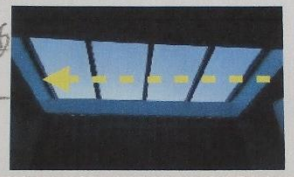
By: Ffion

WHAT DID WE DO?

- From Mummy & Daddy's bed, we looked through the window in the ceiling at the clouds moving
- We timed the speed of the clouds and logged the different speeds on different days
- We searched on Google to find out the different types of clouds and why they moved

HOW FAST DO THEY GO

- We timed how fast it would take to get from one side of the window to the other: 32Seconds
  - Day 1:
  - Day 2: 1:14
- We looked on Google to find out:
  A: Between 30-40 MpH



WHY DO THEY MOVE

- Ffion's Guess:
  To make it light
- Answer: The wind blows them

DIFFERENT TYPES

Clouds come in different shapes

Rabbit Dragon
crocodile Tree
robot Head
duck - dog
Dinosaur

Minibeast's in the Garden

Does it have a shell?

No

Ladybird

6 Legs

Slug

FLY

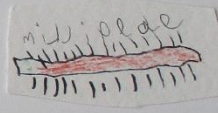
Does it have wings?

8 Legs

Spider

Does it have more than 8 legs?

More than 8 Legs



0 Legs

Does the minibeast have legs?

Snail

Ant

Worm

17/03/2020

Zachary Dries

Guinea Pigs

by Phoebe Year1

WIGGLES

What do Guinea's do?

my Guinea pigs lay in the sun. Georgia's Guinea pig likes to eat grass. They also hide in tunnels.

Guinea pigs are they have fu They don't lay The have live They feed

Guinea pigs are herbivores.

Guinea pigs are herbivores?

What does it eat?

Watermelon Peppercarrot Lettuce Guinea pigs food cucumber

They have 3 toes on their back feet and 4 on the front.

BINKY NACHO

Guinea Pig

Watching my Cress Grow

Cress Plant Diary

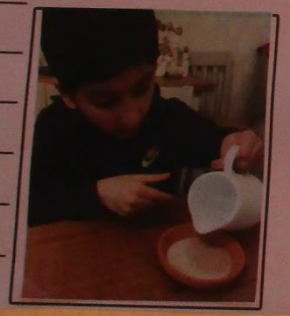
I then added the seeds and wait for it to grow.

②

I saw my cress sprout

④

I put the cotton wool in a pot. I then added water.



①

I will keep an eye on my cress and add some water every day.

③

my cress has Furry stems. It is now ready to eat.

⑤

Fruit Plant Growth Sequencing

Name: Kayan Chukla

Fill the plant pot with soil.

Plant the seeds into the soil.

Using a watering can, water the seeds.

The seeds begin to sprout and grow.

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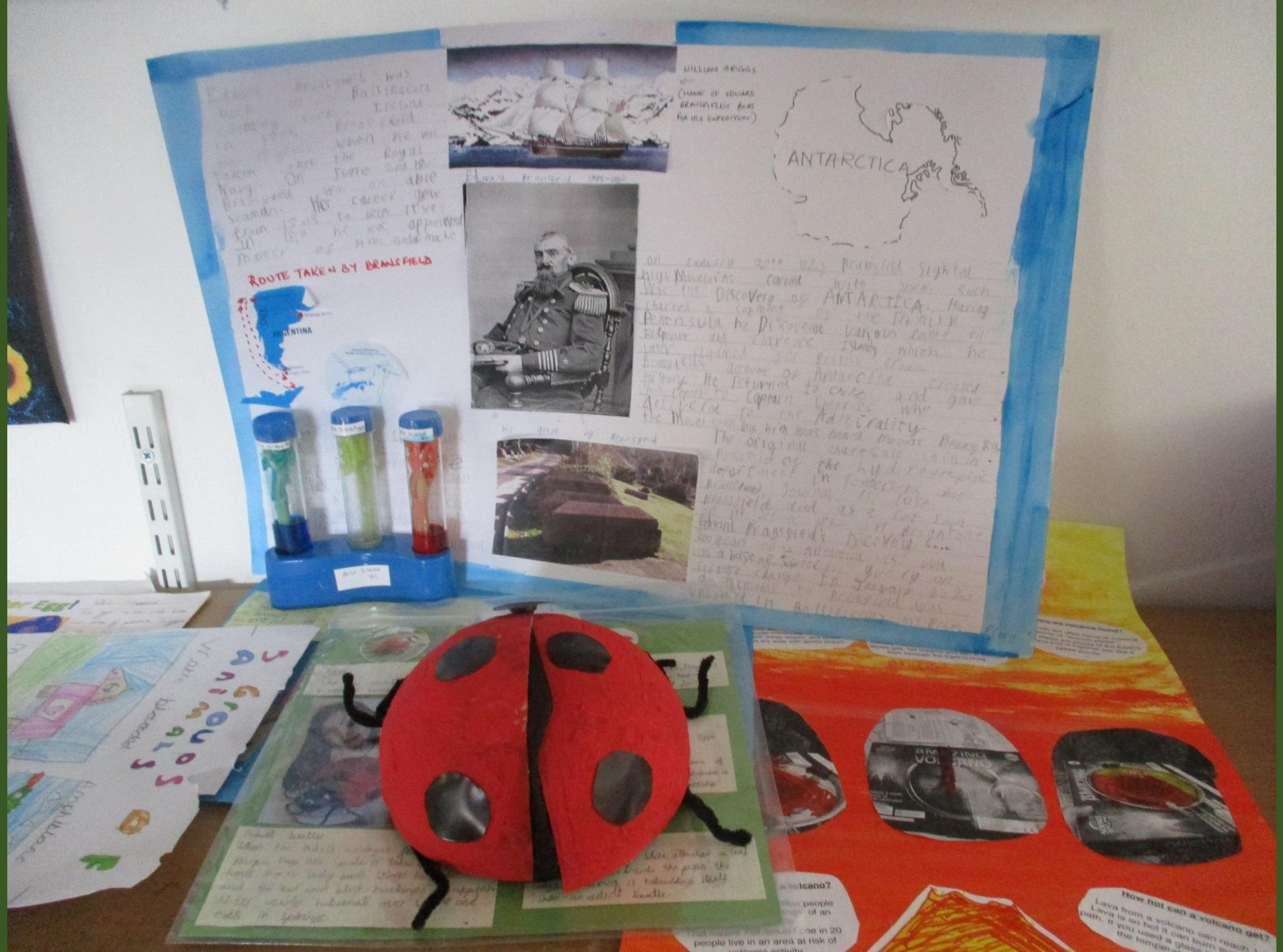
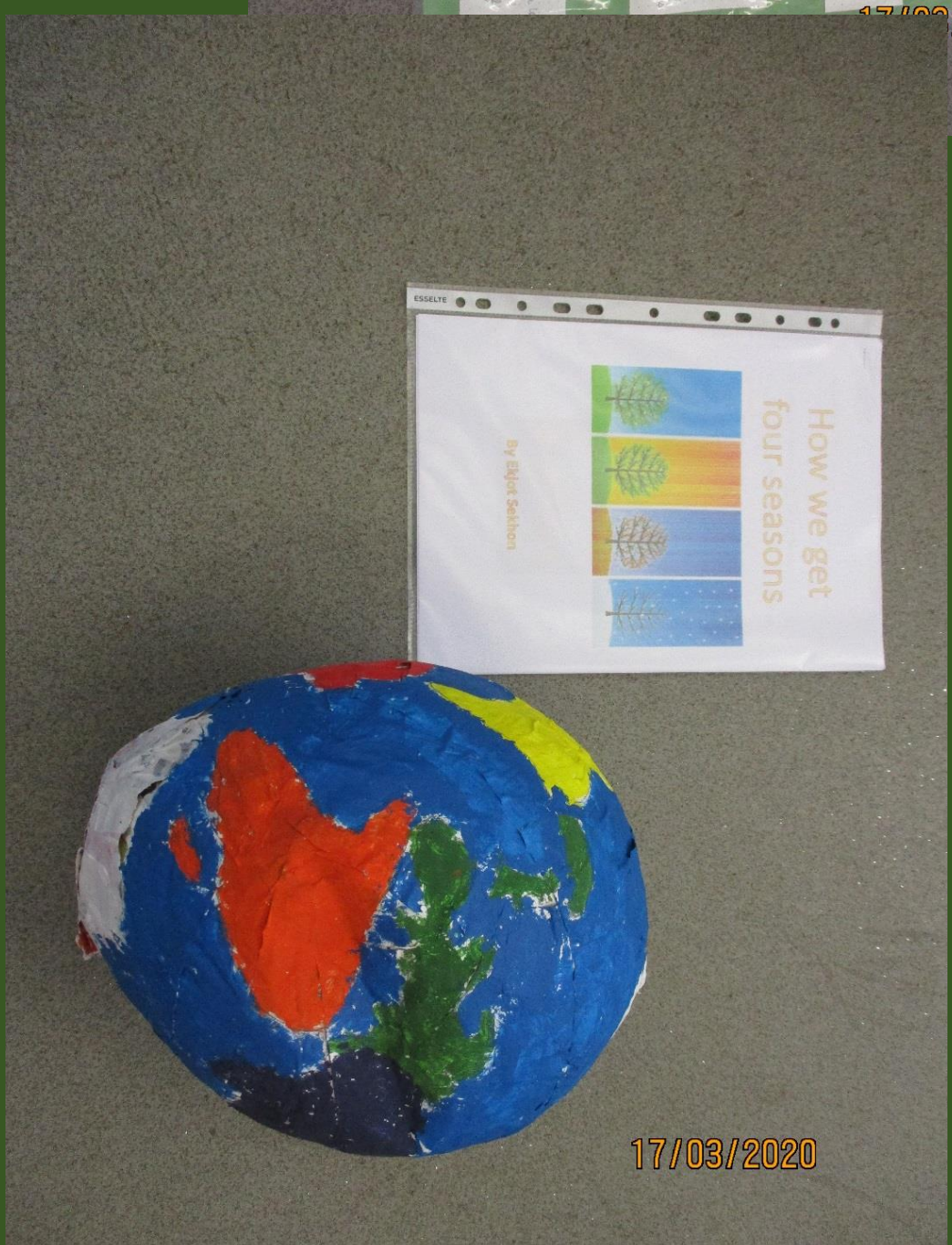
Year Two


ANTARCTICA
ROUTE TAKEN BY BRANSFIELD
How not can a volcano get?


Sunflower Life Cycle
Seed
Germinate
Seeds form
Seedling
Flower
Save the Easter Egg!
3 Groups of Animals


Ladybird
17/03/2020


ESSELTE
How we get four seasons
By Ekjot Sekhon
17/03/2020


Waxing Crescent Moon
New Moon
Waning Crescent Moon
Third Quarter Half Moon
over the days I
round the earth.
amount of sunlight
④ FROG
METAMORPHOSIS
① FROG SPAWN
THE LIFE CYCLE OF A FROG
A female frog lays lots of eggs at one time in a pond. This floats on top of the water like a big jelly mass this is known as frog spawn
② Tadpoles
③ FROGLETS
Creatures I can see From My garden
Life Cycle of a Butterfly


phases by Esther G.(1) year 2.
My research - There are 8 types of moon phases.
This is a moon phase model:
First Quarter Half Moon
Waxing Gibbous Moon
Waxing Crescent Moon
Earth
Full Moon
New Moon
Waning Gibbous Moon
Waning Crescent Moon
Third Quarter Half Moon
sunlight
changed over the days I
its around the earth.
the amount of sunlight
Egg chute
How cress
FROG
THE LIFE CY
Everyone can do their part to curb deforestation.

Year 3

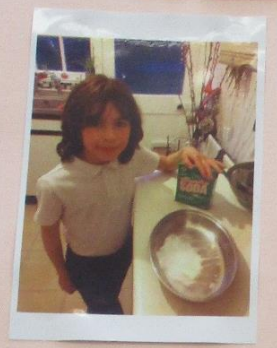
How I made my Volcano erupt

- 60 ml of water
- A teaspoon of bicarbonate of soda
- 60ml of vinegar
- A few drops of red food colouring
- A few drops of washing-up liquid
- A small square of tissue paper
- A long thin stick

FIZZ EXPERIMENT

by Five A.S Year 3

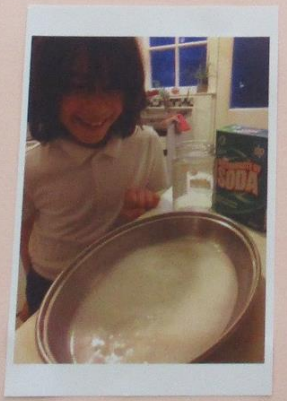
I used bicarbonate of soda and vinegar to make the FIZZ.



① Put 3 tbsp of bicarbonate of soda into a pan

② Put 100ml of vinegar into a jar.

③ pour the vinegar into the pan with the soda.



④ Can you see the Fizz?

⑤ Conclusion: Bicarbonate of soda and vinegar mixed together creates a BIG FIZZ!

FIZZ EXPERIMENT

by Fine Art Year 8

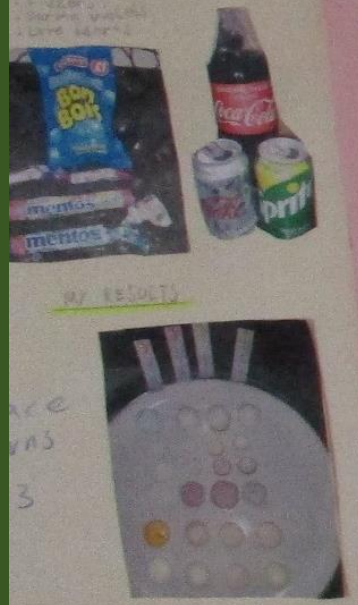
1) Put 3 tbsp of bicarbonate of soda into a jar

2) Put 100ml of vinegar into a jar

3) pour the vinegar into the jar with the

4) Can you see the fizz?

5) Conclusion: bicarbonate of soda and vinegar mixed together creates a BIG FIZZ!



MY RESULTS

	BASHA VIOLET	LOVE HEART	FRUIT MENTO	MINT MENTO
	Fizzed a lot	Fizzed a little but smaller	Fizzed the most changed colours to pink	Fizzed a lot but smaller
	No fizz Stained clear colour	NOTHING	Fizzed a little	Fizzed a lot of bubbles faded
	No fizz Stained clear colour		Fizzed lots of fizz changed colour	Fizzed a lot faded

How fruits change overtime

Day 1

Day 2

Day 4

Day 8

Observations

Time

Evidence

ALL ABOUT MY EXPERIMENT

WHAT I DID

I added bon bons, Mint Mentos and fruit Mentos, Parma violets, Fizzers and Love hearts. I added these to first coca cola, then sprite and finally Diet coke. We wanted to find out what happens to the sweets when we add them to different drinks, after 30seconds and 1minute.

INGREDIENTS

The Ingredients were...

Sweets
- Mint Mentos
- Fruit Mentos
- Bon Bons
- Fizzers
- Parma violets
- Love hearts

Drinks
- Sprite
- Diet coke
- coca cola

Love heart

MY RESULTS

Grace Towns

Yr 3

	BON BON	FIZZER	PARMA VIOLET	LOVE HEART	FRUIT MENTO	MINT MENTO
SPRITE	• Fizzed • Got smaller • went white	• Fizzed • Got smaller	• Fizzed a lot!	• Fizzed a little • Got smaller	• Fizzed the MOST • changed colour to light pink	• Fizzed a lot • Got smaller • Faded
DIET COKE	• Fizzed a lot • Lost colour	• NO Fizz • Just sank • Same colour	• NO Fizz • Floated • Same colour	• NOTHING	• Fizzed • lost all colour	• Fizzed with lots of bubbles • Faded
COKE	• huge bubble • Lost colour • got smaller	• Little Fizz • sank	• NO Fizz • float	• Fizzed	• lots of fizz	• Fizzed a lot

17/03/2020

Penny cleaning

Which Liquid will clean pennies the best?

Eddies Prediction

I predict coke will clean the best.
I predict lemon + salt will clean the worst because there is no fizz.

Pennies are made of Copper.

- Coke
- Vinegar & Bicarbonate of Soda
- Lemon + salt
- Glass jars
- old pennies

Pennies get tarnished not just dirty. This is oxygen mixing with the copper and interacting to form Copper oxide. Looks like this

Results

1 Lemon & salt

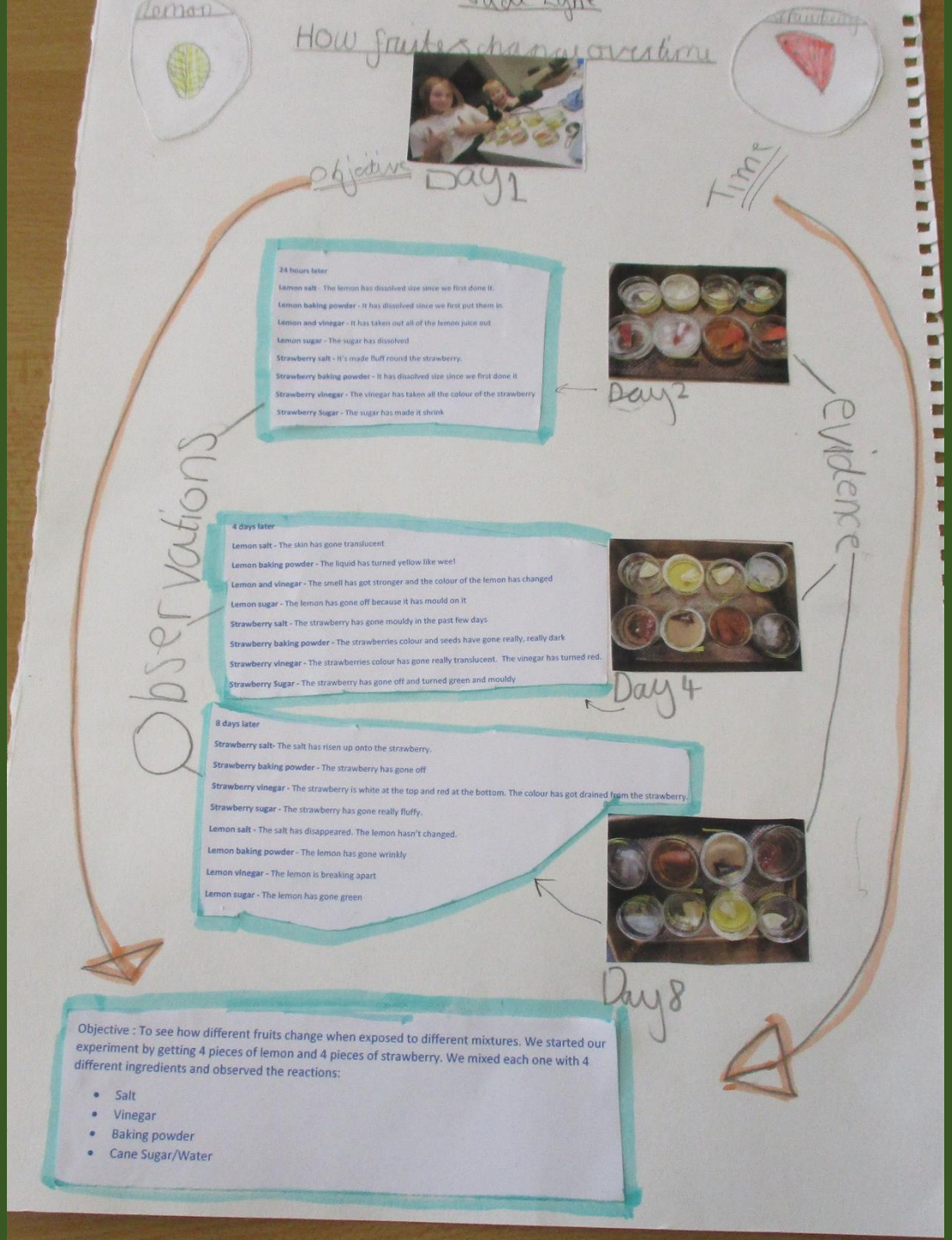
2 Coke

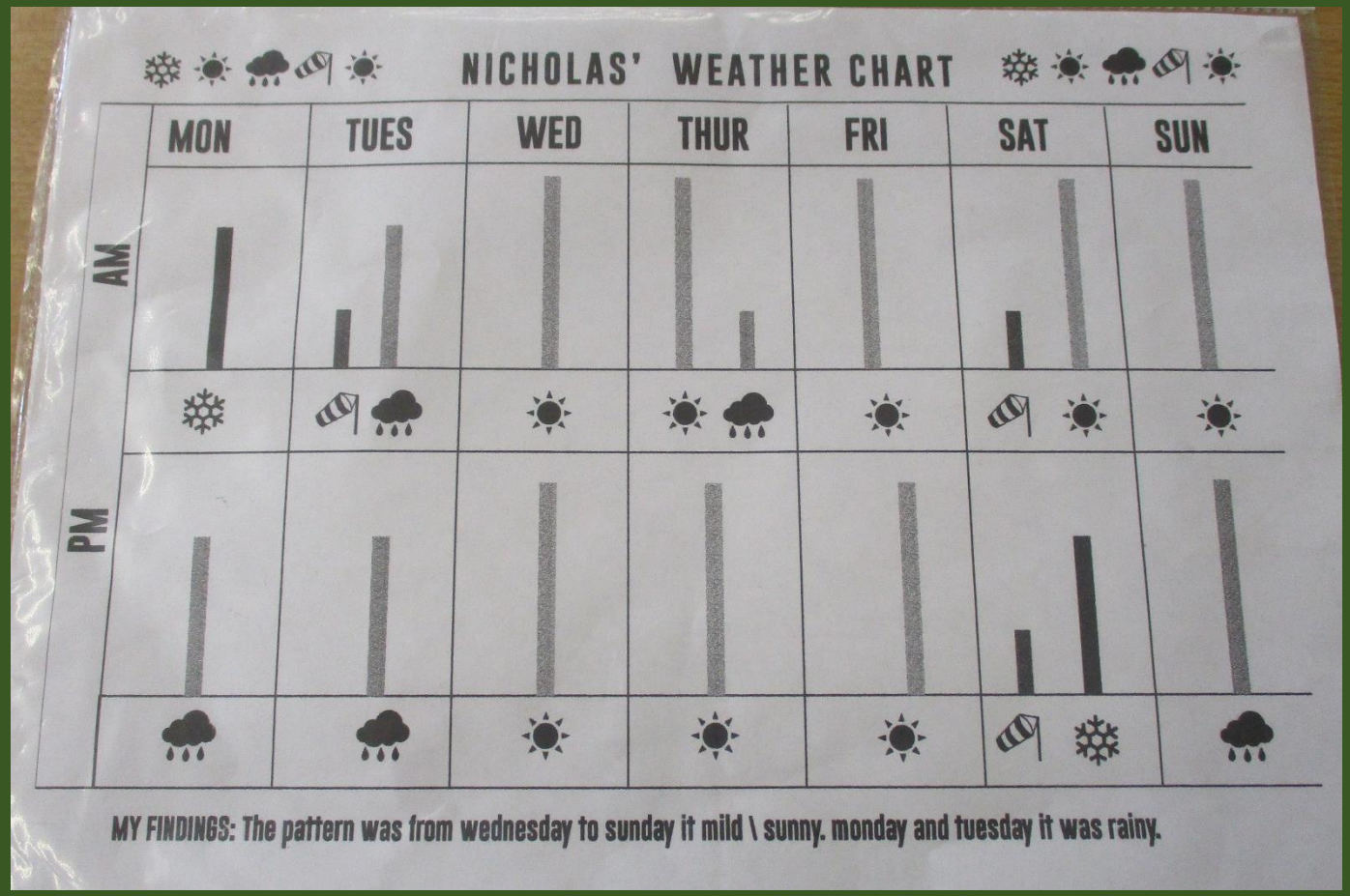
3 Vinegar + Bicarbonate of Soda

Eddies Conclusion

The lemon + salt worked best because the acid weakened the bond between the copper and oxygen atoms. The salt speeds this up.
The coke cleaned quite good because it contains acid too.
We discovered acid is needed to remove the copper oxide and the bubbles added by salt and coke speed it up.

17/03/2020


How fruits change overtime
Objective
Day 1
Time
24 hours later
Lemon salt - The lemon has dissolved size since we first done it.
Lemon baking powder - It has dissolved since we first put them in.
Lemon and vinegar - It has taken out all of the lemon juice out
Lemon sugar - The sugar has dissolved
Strawberry salt - It's made fluff round the strawberry.
Strawberry baking powder - It has dissolved size since we first done it
Strawberry vinegar - The vinegar has taken all the colour of the strawberry
Strawberry Sugar - The sugar has made it shrink
Day 2
Observations
evidence
4 days later
Lemon salt - The skin has gone translucent
Lemon baking powder - The liquid has turned yellow like wee!
Lemon and vinegar - The smell has got stronger and the colour of the lemon has changed
Lemon sugar - The lemon has gone off because it has mould on it
Strawberry salt - The strawberry has gone mouldy in the past few days
Strawberry baking powder - The strawberries colour and seeds have gone really, really dark
Strawberry vinegar - The strawberries colour has gone really translucent. The vinegar has turned red.
Strawberry Sugar - The strawberry has gone off and turned green and mouldy
Day 4
8 days later
Strawberry salt- The salt has risen up onto the strawberry.
Strawberry baking powder - The strawberry has gone off
Strawberry vinegar - The strawberry is white at the top and red at the bottom. The colour has got drained from the strawberry.
Strawberry sugar - The strawberry has gone really fluffy.
Lemon salt - The salt has disappeared. The lemon hasn't changed.
Lemon baking powder - The lemon has gone wrinkly
Lemon vinegar - The lemon is breaking apart
Lemon sugar - The lemon has gone green
Day 8
Objective : To see how different fruits change when exposed to different mixtures. We started our experiment by getting 4 pieces of lemon and 4 pieces of strawberry. We mixed each one with 4 different ingredients and observed the reactions:
Salt
Vinegar
Baking powder
Cane Sugar/Water


NICHOLAS' WEATHER CHART
MON
TUES
WED
THUR
FRI
SAT
SUN
AM
PM
MY FINDINGS: The pattern was from wednesday to sunday it mild \ sunny. monday and tuesday it was rainy.


Birds
Robin
Crow
Mammals
Mouse
Creatures in my garden by Noah
Bumble bee
Fox
Insects
Cat
WHAT FOOD DO THE SQUIRRELS PREFER IN OUR GARDEN?
TEST 1
TEST 2
TEST 3 - THE FINAL
RESULT
CONCLUSION
Deer
Mice
RODENTS
MAMMALS
Squirrels
Rabbit
WHICH CREATURES ARE LIVING IN MY GARDEN?
Frog
Robin
BIRD
AMPHIBIANS
Newt
Noah Hunter
NICHOLAS' WEATHER CHART
MON
TUES
WED
THUR
FRI
SAT
SUN
AM
PM
ALL ABOUT MY EXPERIMENT
WHAT I DID
I added bon bons, Mint mentos and fruit Mentos, Parma violets, Fizzers and love hearts. I added these to first coca cola, then sprite and finally Diet coke. We wanted to find out what happens to the sweets when we add them to different drinks after 30seconds and 1minute.
INGREDIENTS
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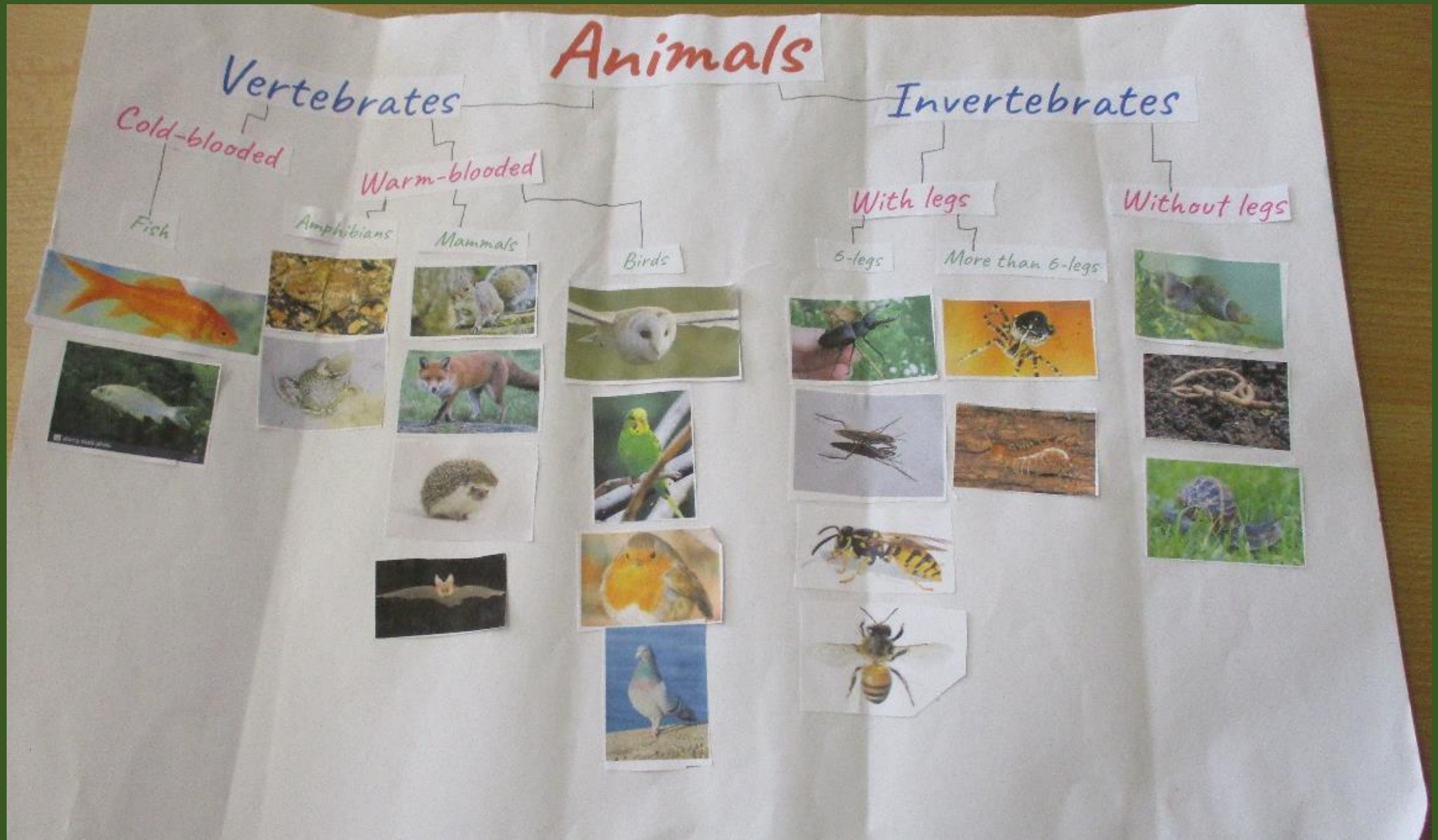
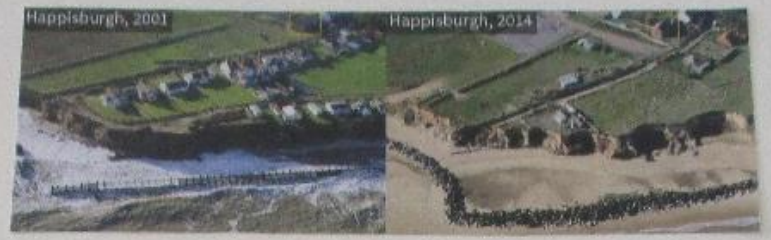
Sweets
- Mint Mentos
- Fruit Mentos
- Bon Bons
- Fizzers
- Parma violets
- Love hearts
Drinks
- Sprite
- Diet coke
- coca cola
Love hears
MY RESULTS
Grace Towns
yr 3
BON BON
FIZZER
PARMA VIOLET
LOVE HEART
FRUIT MENTO
MINT MENTO
SPRITE
DIET COKE
COKE


Animals
Vertebrates
Cold-blooded
Fish
Warm-blooded
Amphibians
Mammals
Birds
Invertebrates
With legs
6-legs
More than 6-legs
Without legs

17/03/2020

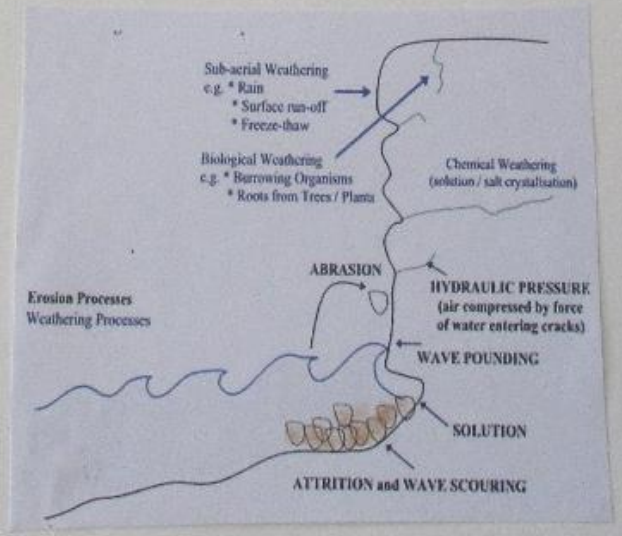
Thu

COASTAL EROSION



The reasons for coastal Erosion are:

1. HYDRALIC ACTION – created by forces of water
2. ABROION – created by hurled rocks at the coastline
3. ATTRITION – rocks crash and break each other
4. AIR COMPRESSION – where air gets trapped inside the rock
5. SOLUTION – acid in the water dissolves the rock



Making Mould !!

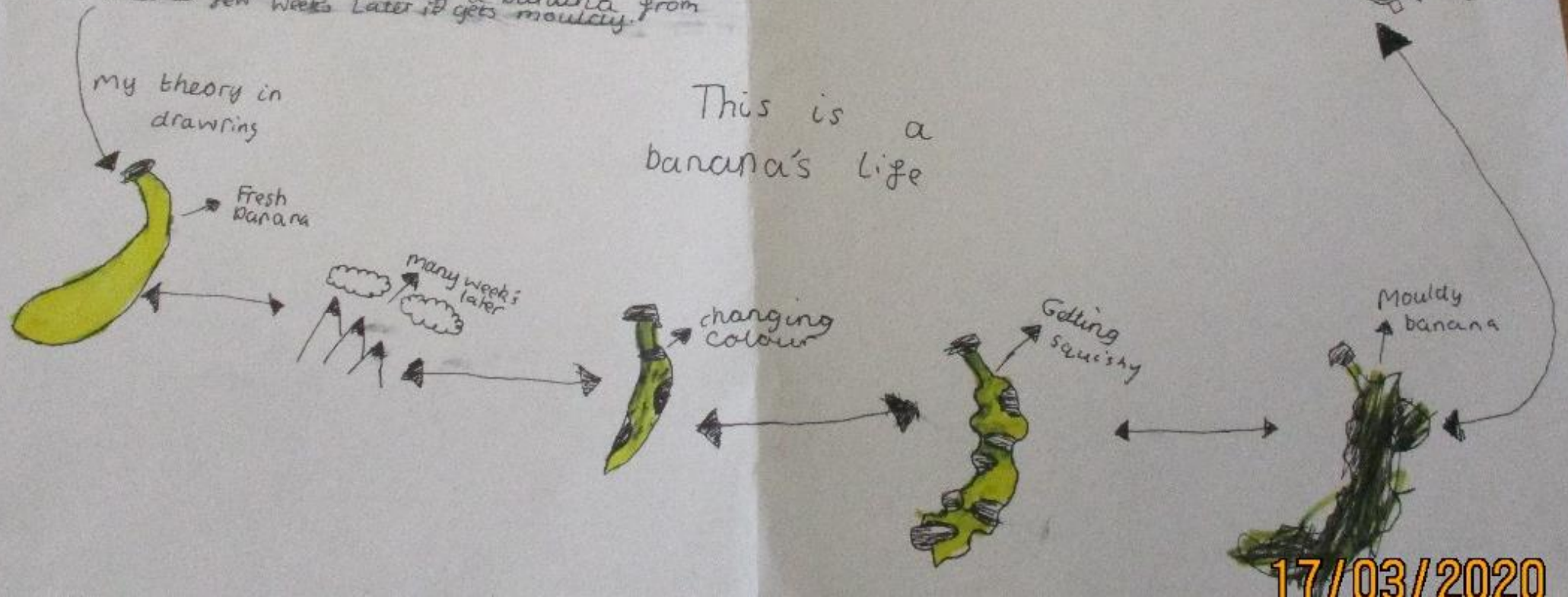
By Mustafa Anwar
Yr3

Information

As you notice some food's get mouldy. When food gets mouldy they get all mushy and soft. With some food like banana's they change colour. Somtimes if you were a scientist you would discover and learn about mould. Most scientists would do expirements on mould. Scientist's have found out that white and green mould is called penicillium. Did you know that mould can grow! Also did you know that mould is a type of Fungus!! Mould also loves to grow in the summer.

Theory

One of my theory's is that I buy a banana from the shop's and a few weeks later it gets mouldy.



5 Groups of Animals

Warm-blooded

blanket

Amphibians

catchrid

Web

mammals

meat

crustaceans

coral

17/03/20

The Water cycle

FRUITS, VEGETABLES, AND FLOWERS
- Rain makes plants grow, giving us food to eat. Most plants also produce flowers for our enjoyment.

BEAUTY AND ENJOYMENT
- Rivers, Lakes and Waterfalls beautify the earth and bring us enjoyment.

OTHER BENEFITS
- The Water cycle has other benefits. For instance, the evaporation of sea water produces salt.

DAILY USE
- We drink water and use it to mathe other drinks such as Lemonade, coffee and tea. We also use water for cooking, cleaning and bathing.

Water in liquid form exists on earth because our planet is located at the perfect distance from the sun. If it were just a little closer, all the water would boil off, leaving a hot, lifeless rock. If the earth were just a little farther from the sun, all the water would freeze, turning the earth into a giant ball of ice. Because the earth is placed at the ideal location, the earth's water cycle can sustain life. The sun heats water in the oceans and on the earth's surface and evaporates the water to form clouds. Each year, the sun evaporates nearly 120000 cubic miles of water. This water stays in the atmosphere for about ten days before falling as rain or snow. The water eventually makes its way back to the ocean or other bodies of water, and the cycle is repeated.

WHAT FOOD DO THE SQUIRRELS PREFER IN OUR GARDEN?

BY CERYS PUGH (Y3)

TEST 1

bread vs seeds

Winner: seeds

TEST 2

carrot vs almonds

Winner: almonds

TEST 3 - THE FINAL

seeds vs almonds

Winner: almonds

RESULT

In our experiment, we found out that squirrels love almonds. which was surprising because I thought they loved seeds.

CONCLUSION

Squirrels can't normally find nuts like hazelnuts and almonds so when they have them they think of it as a treat. That's why they ate all of the almonds in our test.

17/03/2020

Observing over time

salt and water

Day 1

I have put salt, water and string in a bowl on my raideator so the water avaporates.

Day 2 Some water avaporated

Day 3

Today all of the water is gone and the salt has turned into amaizing crystalls.

I enjoyed this project because I finaly got to see real crystall.

by: Jared in Yr 3

School Science project

If a candle is big does that mean it burns brighter and does the size the size effect the smell?

I chose 6 candles from the size biggest to smallest and with my daddy we lit each in turn and we measured the brightness with a light meter and then we blew the candles out and we rated the smell out of 10.

; some of the canelles had more than one wick, we made it fair by only lighting one wick, we also conducted the experement in a very dark room.

candle 1: (was the largest)
make: Hotel collection #3
Smell: pomegranate
light level (lux) = 26
smell rating 4/10

#2

candle 2: (was the second largest)
make: unknown
Smell: peony
light level (lux) = 28
smell rating: 6/10

#1

candle 3: (medium
make: unknown
Smell: unknown
light level (lux) = 16
Smell rating = 4/10

#4

Conclusion: I worked out that if the candle is bigger it does not effect the brightness. As to the smell the size makes no dusserance that is down to is you like it or not.

candle 4: (third smallest)
Make: Miller Harris
Smell: terre de bois (it means wood and earth)
light level (lux) = 3
smell rating = 7/10

#5

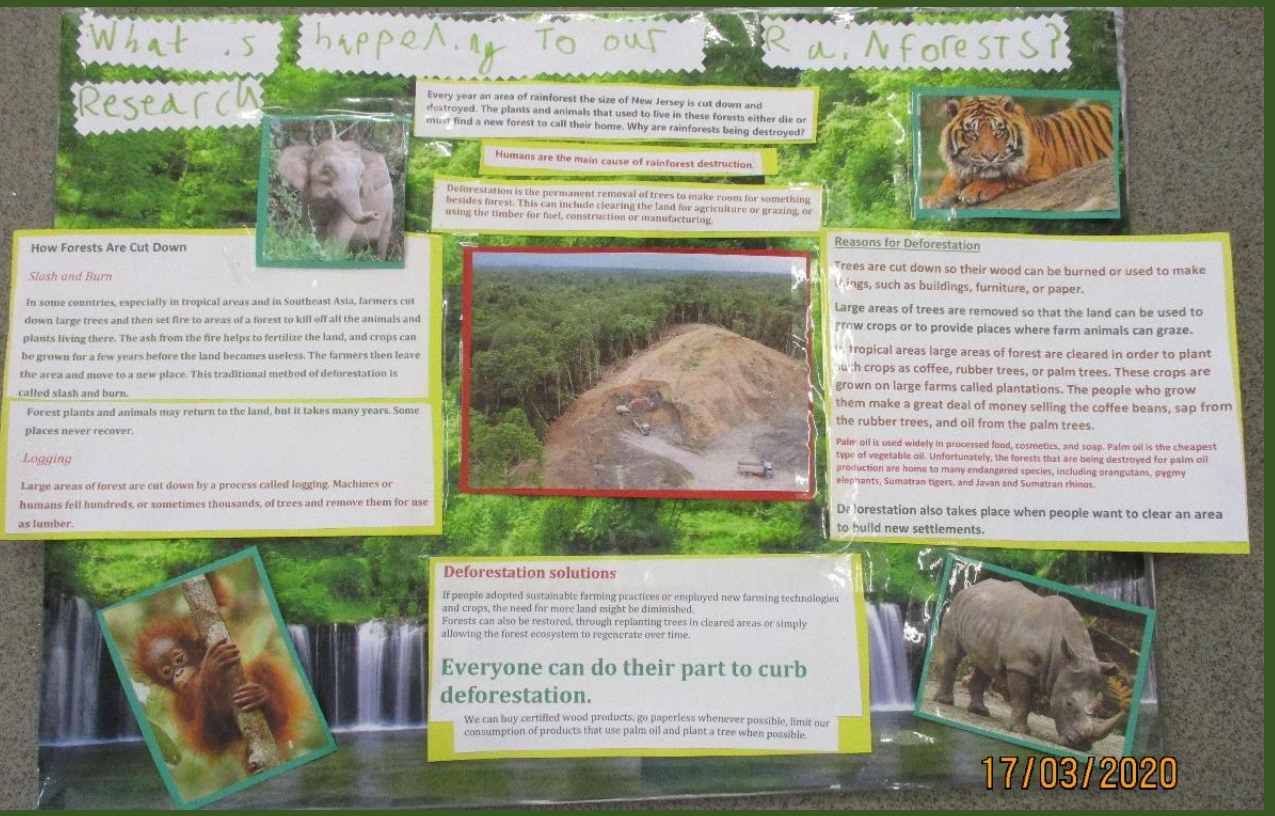
candle 5: second smallest
Make: Essence of Harris
Smell: sandal wood and wild nettle
light level (lux) = 2
Smell rating = 9/10

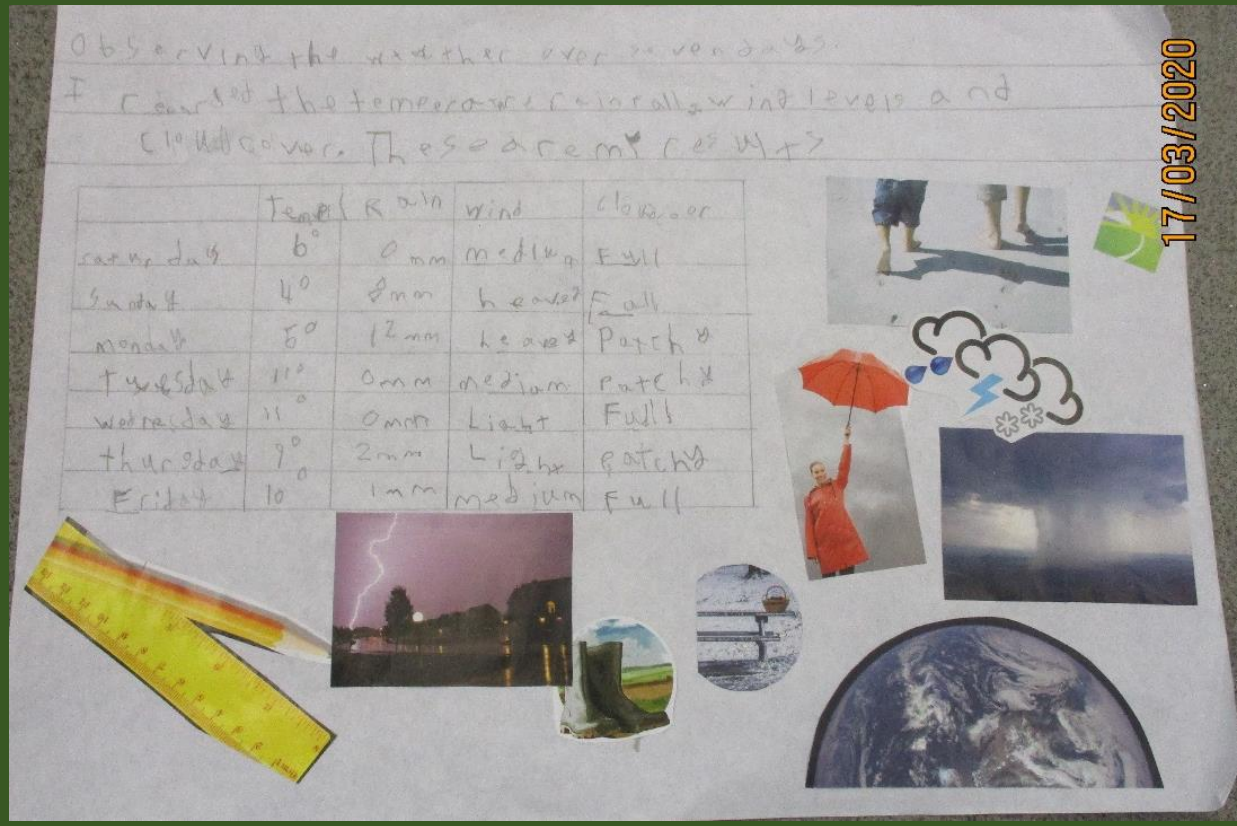
#6

candle 6: (smallest)
Make: The white company
light level (lux) = 1
Smell rating = 2/10

#3

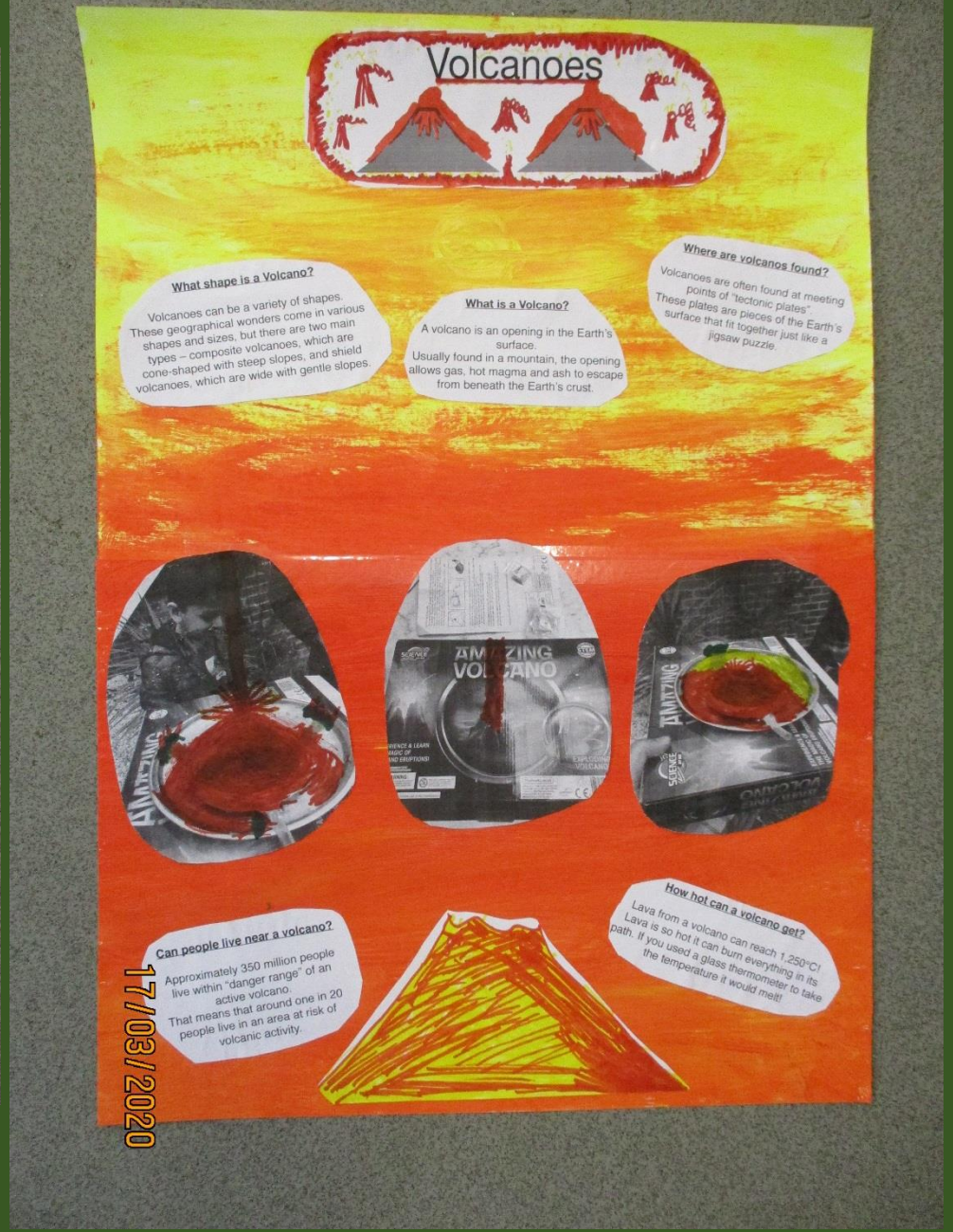
17/03/2020





	Temp	Rain	wind	cloud cover
saturday	6°	0mm	medium	Full
Sunday	4°	8mm	heavy	Full
monday	5°	12mm	heavy	Patchy
tuesday	11°	0mm	medium	patchy
wednesday	11°	0mm	Light	Full
thursday	7°	2mm	Light	patchy
Friday	10	1mm	medium	Full


Insects
6 legs
3 body parts
Arachnid
2 body parts
8 legs
Water birds
Creatures I can see from my garden
Birds
Jess Hyde Y2
feathers
tail feathers
beak
down
breast
Crustacean
slimey
no legs
hard shell
17/03/2020


Volcanoes
What shape is a Volcano?
Volcanoes can be a variety of shapes. These geographical wonders come in various shapes and sizes, but there are two main types – composite volcanoes, which are cone-shaped with steep slopes, and shield volcanoes, which are wide with gentle slopes.
What is a Volcano?
A volcano is an opening in the Earth's surface.
Usually found in a mountain, the opening allows gas, hot magma and ash to escape from beneath the Earth's crust.
Where are volcanos found?
Volcanoes are often found at meeting points of "tectonic plates".
These plates are pieces of the Earth's surface that fit together just like a jigsaw puzzle.
Can people live near a volcano?
Approximately 350 million people live within "danger range" of an active volcano.
That means that around one in 20 people live in an area at risk of volcanic activity.
How hot can a volcano get?
Lava from a volcano can reach 1,250°C!
Lava is so hot it can burn everything in its path. If you used a glass thermometer to take the temperature it would melt!
17/03/2020

Year 4

SEED GERMINATION

By Max Harris

Which seed grows the FASTEST?

What I need

- Paper towel
- Water
- Sunflower, Pea and Broad bean seeds
- pots

Day 1

- **Sunflower seed**: A root started to appear.
- **Pea seed**: Nothing changed.
- **Broad bean seed**: The shell has started to crack.


Day 1 - Sunflower


Day 1 - Pea


Day 1 – Broad bean


Day 7 - Sunflower


Day 7 - Pea


Day 7 – Broad bean

Day 7

- **Sunflower seed**: Roots have formed and a shoot with a green leaf has appeared.
- **Pea seed**: root hairs and a thick shoot is coming up to the surface.
- **Broad bean seed** : A thick shoot is coming out of the side of its shell.

Day 14

- **Sunflower seed**: There are now 2 leaves on the shoot but the shoot hasn't reached the top of the pot.
- **Pea seed**: The shoot has now got 6 leaves and more green shoots sticking up! It has grown 8cms above the pot!
- **Broad bean seed** : There are 2 leaves on the shoot and it is 2cms above the pot. There are lots of roots coming down and one is poking out of the bottom of the pot!


Day 14 - Sunflower


Day 14 - Pea


Day 14 – Broad bean

Conclusion

I thought that the sunflower seed was going to grow the fastest because a root started to form on Day 1. But by Day 14 the pea shoot started growing really quickly and became the tallest! However one factor might be that the paper towels may have been blocking the smallest seed from growing.

BREAD MOULD EXPERIMENT

Introduction!

My experiment will show how clean a surface is and what bacteria is secretly lurking on them!

With a lot of focus on hygiene, I am hoping that your eyes will be opened and just because it looks clean, doesn't mean it is 😊

Equipment:

Loaf of white bread, plastic bags, labels, marker

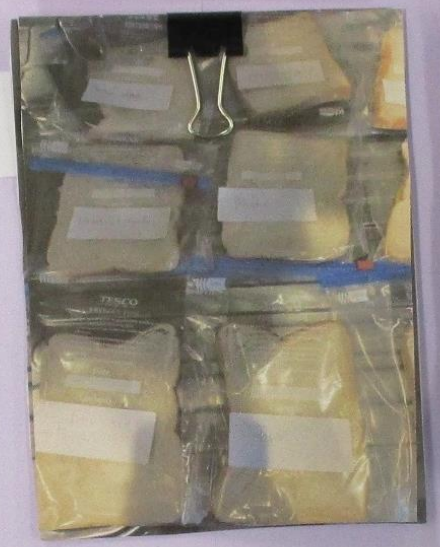
Method:

1) Write surface names on labels
2) Rub slightly damp bread on the chosen surface
3) Place bread slice into plastic bag and seal
4) Take one bread piece and seal (test sample)
5) Leave in a warm place
6) Check daily for growth

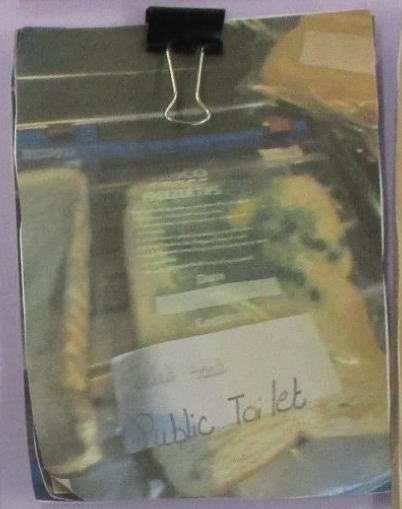
SURFACES:

- Public toilet
- Lounge TV remote
- Set of keys
- Outside door knob
- Home stair banister
- Kitchen taps
- Mum's phone
- Jai's XBOX controller
- Unwashed hands
- Hands washed with soap
- Hands washed by hand sanitiser
- Test bread sample

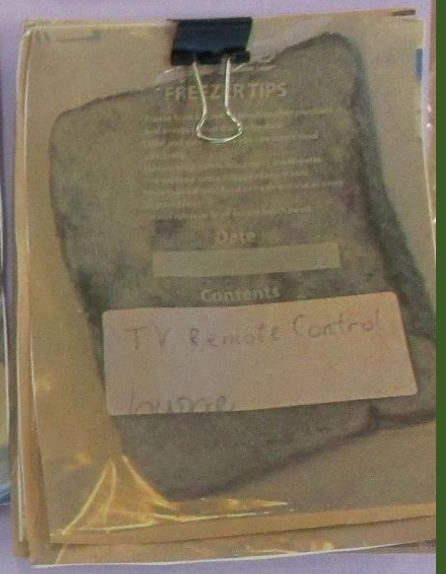
WEEK 1



WEEK 2



WEEK 3



Findings:

Week 1:

There were no obvious signs of bacteria on any of the slices of bread, except a very small patch of growth on the public toilet sample

Week 2:

The public toilet sample had grown and multiplied to around half the size of the bread, a very dark green colour

The outside door knob had a faded green bacterium over one third of the breads area

My mums phone had a pale-yellow splodge surrounding a single, 1cm wide green/grey growth

Finally, the lounge remote had slight discolouring all over

All other samples remain as they were

Week three:

All the above continue to grow and multiply

The bannister grew a small, dark green spot and the XBOX controller grew a tiny spec

MOST INTERESTINGLY unwashed hands stayed spotless as did hands washed with soap.

I used my mum's hands and she always uses soap not antibacterial gel.

SHOCK FACT - The sample with hands washed with hand sanitiser had as much growth as the outside door knob.

The sample bread and kitchen taps remained perfect

LESSONS LEARNT

Simple soap cleans best! Hand sanitiser is not as effective as soap when it comes to fighting germs

Don't forget to clean everyday items such remote controls, keys and mobiles phones! They have some hidden germs the naked eye cannot see

Public toilets are a disgrace! Please wash your hands extra when using these!

TRY IT AT HOME!

If you want to see what is going on your surfaces, follow the instruction above and

BE READY FOR SOME SURPRISES!!

STAY CLEAN, STAY SAFE 😊

By Eva Yr 4

The Moon

Our moon has a gravitation pull on the Earth that creates a bulge. This bulge moves around as the Earth rotates, causing the low and high tides of the oceans

The Moon was likely formed after a Mars-sized body collided with Earth

Day: About 27 Earth days

Minimum temperature: -387 degrees Fahrenheit
Maximum temperature: 253 degrees Fahrenheit

Distance from the Earth: About 239,000 miles

The moon has 1/6" of the gravity that we have on Earth

The term "the dark side of the Moon" relates to the fact that even though both sides of the moon get the similar sunlight, the moon is tidally-locked so that only one of its side face the Earth

That means 50 Earth-sized planets could fit in between Earth and the Moon.

The moon is actually drifting away at around 3.8 cm per year. Scientists believe that in 50 billion years it may be far enough from the Earth that it will take the moon 47 days instead of the current 27.3 days to orbit the Earth.

"Year" (time to orbit the Earth): About 27 Earth days

Earth's only natural satellite is simply called "the Moon" because people didn't know other moons existed until Galileo Galilei discovered four moons orbiting Jupiter in 1610

BY DYLAN

At the time of its formation, the Moon sat much closer to the Earth - a mere 14,000 miles away, compared with the 250,000 miles between the Earth and the Moon today.

Without the Moon, the Earth could slow down enough to become unstable, but this would take billions of years and it may never happen at all.

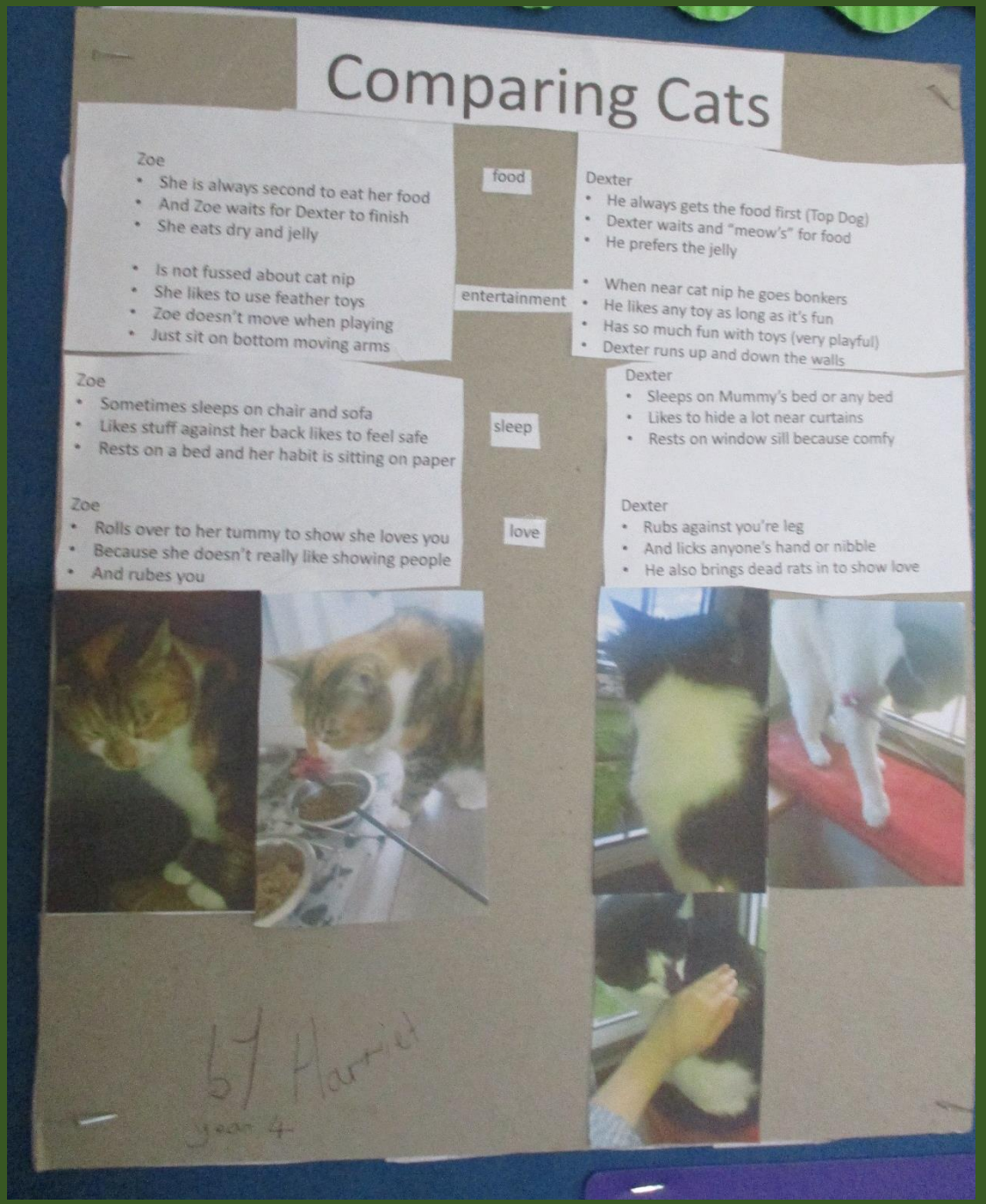
On early Earth, when the Moon was newly formed, days were five hours long, but with the Moon's braking effect operating on the Earth for the last 4.5bn years, days have slowed down to the 24 hours that we are familiar with now, and they will continue to slow down in the future.

If the Earth become unstable, then parts of the world could experience much greater temperature swings than we are used to through any given year, with freezing Arctic temperatures in winter followed by blazing hot temperatures in summer.

As humans we have the ability to adapt to our local surroundings to meet our needs. If humans are still around when and if it happens it is quite likely we would survive these massive changes with air conditioning in the summer and a lot of heating in winter.

Unfortunately most animals are not so adaptable and if these changes happened rapidly due to an unstable planetary wobble, then most animals would not be able to evolve quickly enough to hibernate or migrate out of harm's way.


SPEED OF GROWTH
RESEARCH?
courgette
poppies
cress
seeds
Day 1
Day 2
Day 5
Day 6
Day 8
Day 14
courgette
poppies
cress


Comparing Cats
Zoe
She is always second to eat her food
And Zoe waits for Dexter to finish
She eats dry and jelly
food
Dexter
He always gets the food first (Top Dog)
Dexter waits and "meow's" for food
He prefers the jelly
Is not fussed about cat nip
She likes to use feather toys
Zoe doesn't move when playing
Just sit on bottom moving arms
entertainment
When near cat nip he goes bonkers
He likes any toy as long as it's fun
Has so much fun with toys (very playful)
Dexter runs up and down the walls
Zoe
Sometimes sleeps on chair and sofa
Likes stuff against her back likes to feel safe
Rests on a bed and her habit is sitting on paper
sleep
Dexter
Sleeps on Mummy's bed or any bed
Likes to hide a lot near curtains
Rests on window sill because comfy
Zoe
Rolls over to her tummy to show she loves you
Because she doesn't really like showing people
And rubes you
love
Dexter
Rubs against you're leg
And licks anyone's hand or nibble
He also brings dead rats in to show love
by Harriet
year 4

CRYSTALS

These are the days of my crystal. This crystal grew as the water evaporated.

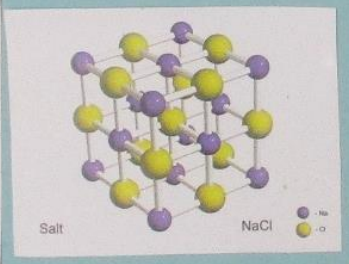
I used observation over time.

This is my finished crystal.

What is a crystal?

A crystal is a solid structure formed by atoms or molecules line up in a regular (not irregular) 3D shape. (Cool Science Fact: The actual word crystal comes from a Greek word Krysos meaning "ice cold") It was originally thought that crystals were a type of ice that was so cold it would never melt.

When a bunch of unit cells are near each other, the atoms arrange themselves into patterns. The smallest building block of crystals is called a unit cell.



How do crystals form?

In nature, crystals form when liquid rock called magma cools. Many priceless crystals such as diamonds, rubies and emeralds form this way. Crystals also form when water evaporates from a mixture (this how I grew my crystal.) Salt crystals normally form this way.

How do crystals grow?

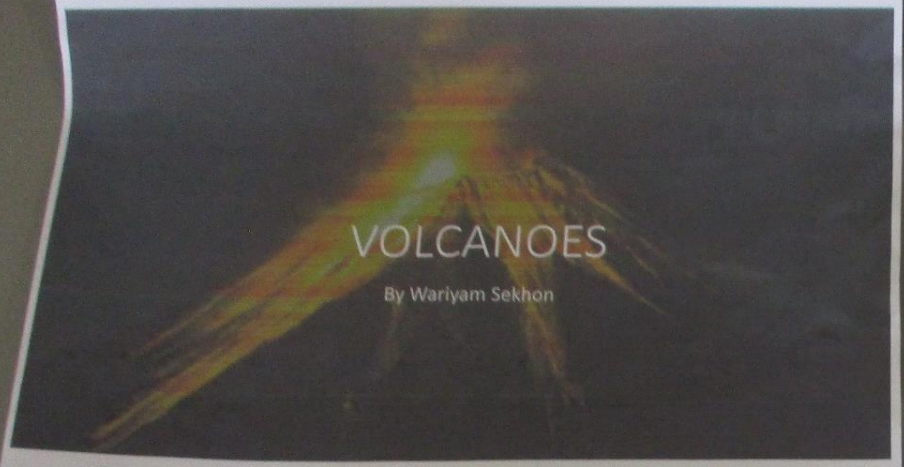
1. Place newspapers or card board down where you will be growing your crystal. Make sure you thoroughly clean and dry your measuring cup, the mixing bowl and your crystal growing chamber.

2. Boil a little more than one cup of water (because some will evaporate). While it's hot pour only one cup of water into a glass measuring cup, then pour into your mixing bowl.
3. Pour bit by bit your crystal growing powder until it's all dissolved. This should take no more than 5 minutes.

4. Carefully pour it into your crystal growing chamber making sure to leave behind all of the undissolved bits.
5. Then put your crystal into the write place and leave it for 15 minutes. A sunny warm place.

6. Calmly, tip your seed rock in (flat side down).
7. Leave the crystal un disturbed for as long as you want. The longer you leave it the bigger it is.
8. Get it out, by tilting the chamber and using a butter knife to & gently scoop it out. Before that, tilt the chamber to remove the water. NOW IT IS DONE!


History
Vicious Vikings



Contents

- What is a Volcano?
- Why do Volcanoes erupt?
- Famous Volcanic eruptions!
- How I made my volcano
- How I made a volcano erupt.

A volcano is an opening in the earth's crust through which magma, ash and gas erupt. Volcanoes can be different shapes although they are commonly cone shaped Mountains. These cone shaped volcanoes are made up of layers of ash and lava. Most volcanoes are found at plate boundaries

17/03/2020

The Scent of flowers

1. Rose	10/10
2. primrose	9/10
3. Hyacinth	8/10
4. Freesia	11/10
5. Petunia	6/10
6. Pansy	3/10

I went to a garden centre and smelt some flowers carefully to catch the scent marking them out of 10.0 the strength of the scent.

Sterling Freesia

Viola

Hyacinth

Why flowers smell

Flowers smell to attract insects to pollinate them.

Type of inquiry Comparative and fair testing

How Does A Venus Flytrap WORK

Fair test: Sometimes the bug is too small it escapes.

Fair test: The trap can close 3000 times before it stops working.

Alternative:

I like Venus flytraps because they are related to other plants but never digest them so the bug is not stolen

The reason it harms the bug nutrients is due to having for food with movement

METAMORPHOSIS

Female frogs lay their eggs in water. The eggs are covered with a jelly - like substance called egg mass.

The single cell in the egg grows into an embryo. Cells are formed at this stage.

The embryo then forms into a tadpole. Tadpoles have gills to breath, a mouth to eat and a tail to swim like a fish.

The frogs tail has gradually gone and now the frog can live on land.

At 12 weeks they grow their front legs and their tail shrinks. Froglets can now leave the water.

At 9 weeks old the tadpoles grow their back legs.

By Savannah

What is the Smallest creature I can find?

Leaves from the garden

Leaf under the microscope

Red mite under microscope

Spider mite photo from Wikipedia

Steps

1. Collect leaves from my garden.
2. Examine leaves under a digital microscope
3. I discovered more creatures on the underneath side than on top of the leaves
4. I saw something red moving on the leaf under the microscope. It was so small I couldn't see it on the leaf with my own eyes.
5. I lowered the microscope to see the insect more clearly. I could then see the legs.
6. To work out which creature it was I matched the picture with pictures of mites on Wikipedia.
7. The large photo of the Spider mite is a picture from Wikipedia. The body is similar shade of red and the legs are pale yellow. It has 8 legs
8. The Wikipedia page said Spider mites are less than 1 mm (0.04 in) in size and vary in colour.

Spider mite

Scientific classification

Kingdom: Animalia

Phylum: Arthropoda

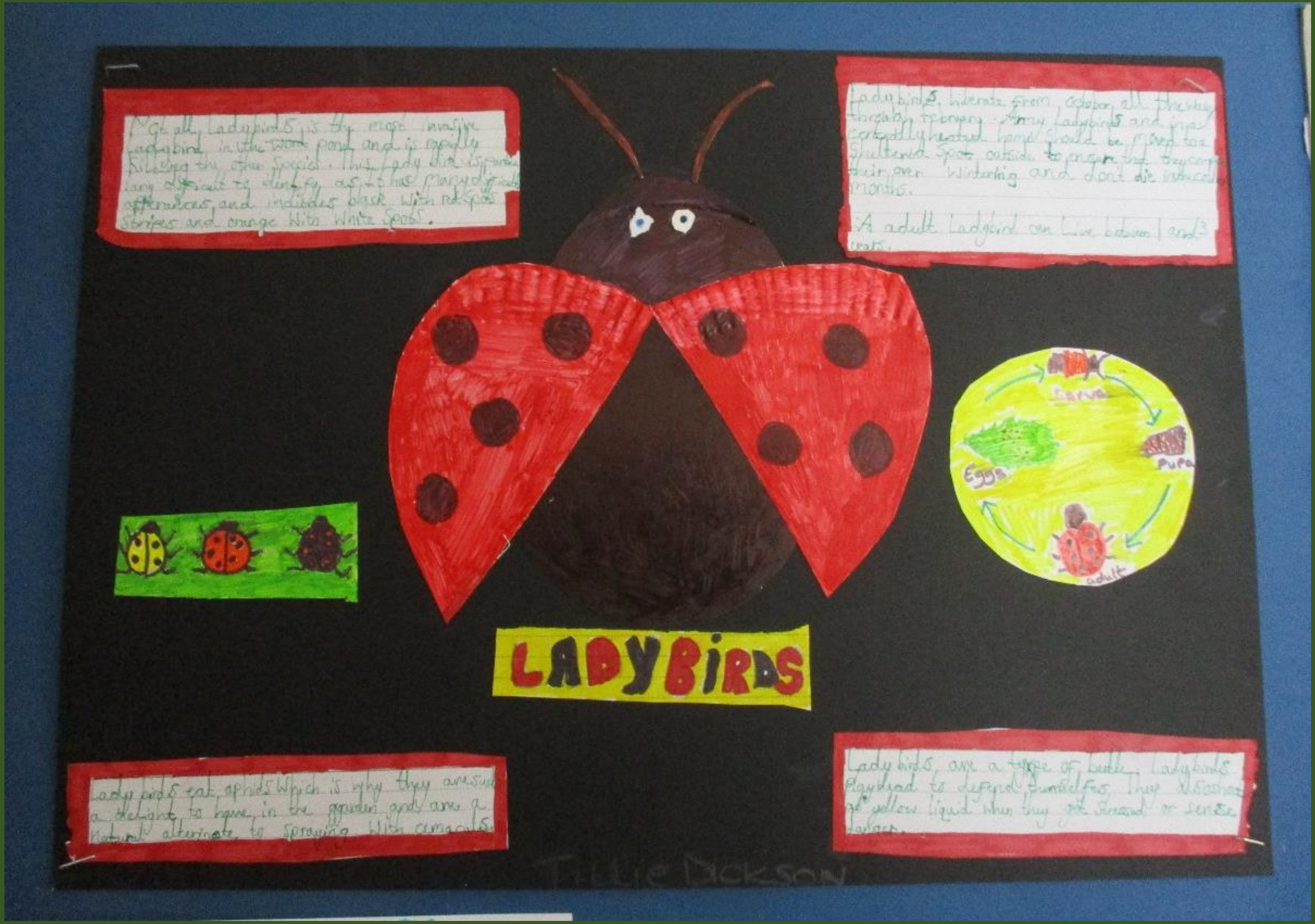
Class: Arachnida

Subclass: Acari

Order: Trombidiformes

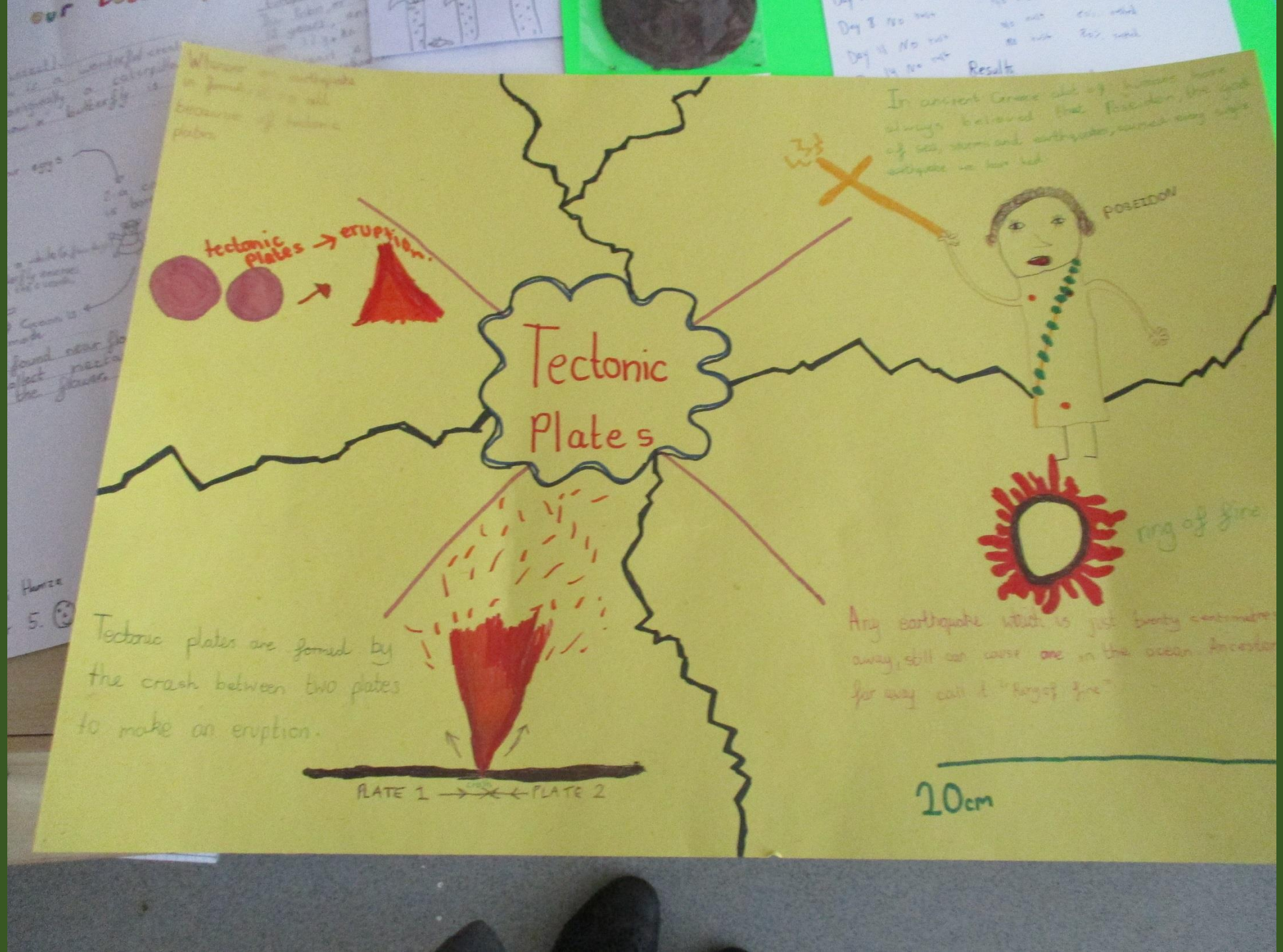
Family: Tetranychidae

Superfamily: Tetranychoidea


LADYBIRDS
A adult Ladybird can Live between 1 and 3 years.
Larva
Pupa
Eggs
adult


COMPARING 3 PLANTS IN A WEEK!
By BOB! (Burt)
Plant Growth Comparison
these shot up but went allot higher over time.
Calendula
Sunflower
Climbing french bean
day 8
day 14
day 14
day 14
day 2
day 3
day 5
day 6
Choosing and Planting!
day 1 / day 1
calendula!
Sunflower!
Climbing french bean!

Year 5


tectonic plates → eruption
Tectonic Plates
POSEIDON
ring of fire
Tectonic plates are formed by the crash between two plates to make an eruption.
PLATE 1
PLATE 2
20cm

Research about Cat Grass

Here are two fluffy cats who need to eat cat grass to keep them healthy.

Cat Grass is grown indoors and it is especially for cats.

What is Cat Grass?

It is a grass mixture that is grown from seeds such as barley, wheat, oats or rye.

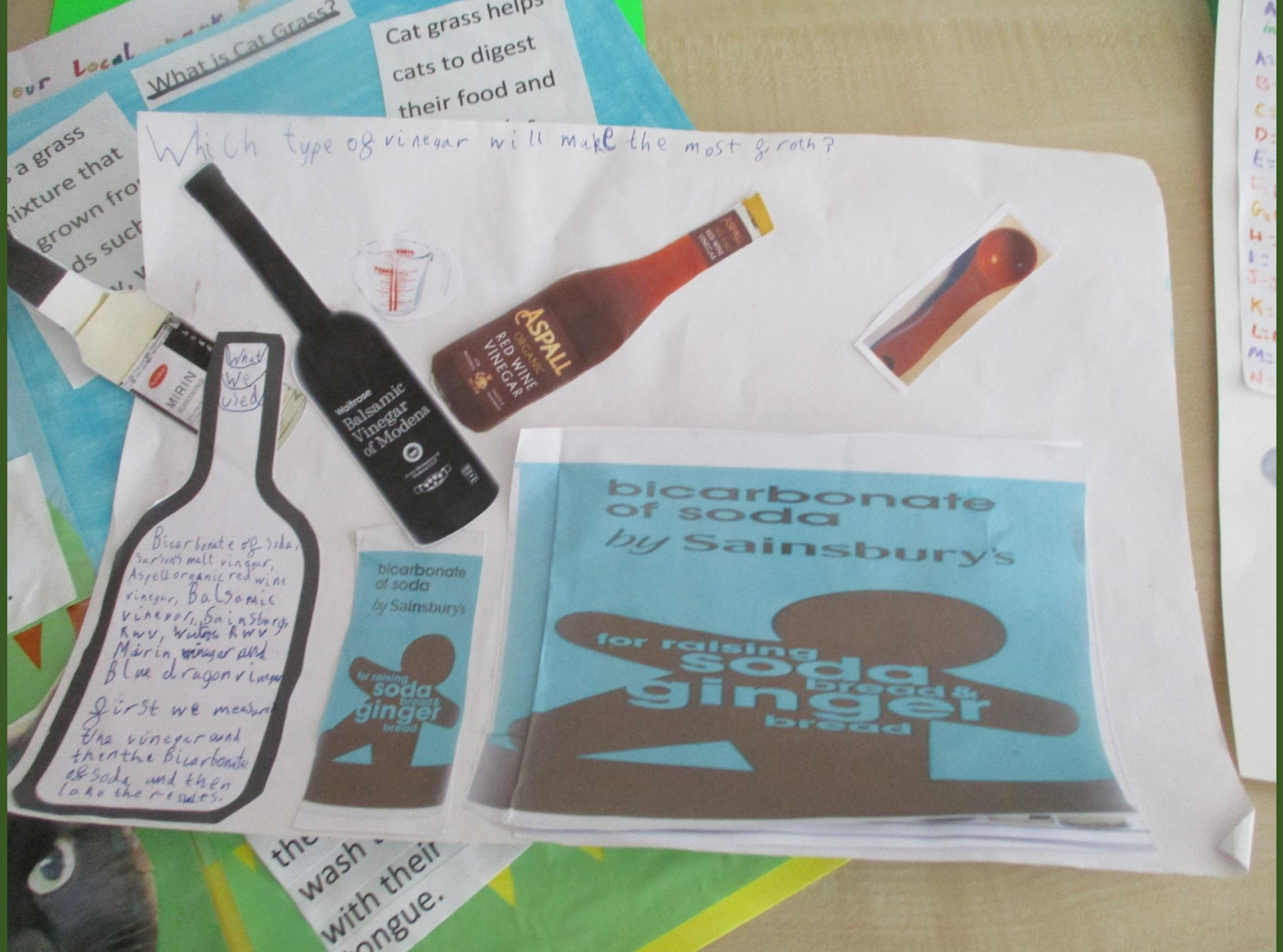
Cat grass helps cats to digest their food and it also helps them to cough up hair balls.

Cat Grass also keeps your cat's fur shiny.

Cat Grass provides cats with vitamins.

Cats get hair balls because they groom or wash their fur with their tongue.

Chorophyll is a green pigment in the grass which helps freshen your cat's breath.


What is Cat Grass?
Cat grass helps
cats to digest
their food and
Which type of vinegar will make the most grow?
MIRIN
Balsamic Vinegar of Modena
ASPALL ORGANIC RED WINE VINEGAR
What we used
Bicarbonate of soda, Sarsons malt vinegar, Aspell organic red wine vinegar, Balsamic vinegar, Sainsburys RWV, Waitrose RWV Mirin vinegar and Blue dragon vinegar
First we measure the vinegar and then the Bicarbonate of soda and then take the results.
bicarbonate of soda by Sainsbury's
for raising soda bread & ginger bread
bicarbonate of soda by Sainsbury's
for raising soda bread & ginger bread
wash
with their
ongue.

(Year 5)

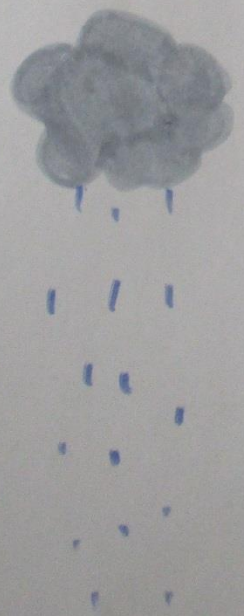
A-Z Storms in 2019-2020

A: Abigail O: Olivia
B: Brendan P: Piet
C: Ciara R: Rósín
D: Dennis S: Samir
E: Ellen T: Tara
F: Francis V: Vinle
G: Gerda W: Willow
H: Hugh
I: Iris
J: Jan
K: Kitty
L: Liam
M: Maya
N: Noah

Clouds:

3 main types of clouds

1. High level e.g cirrus (5-7 Km)
2. Mid level e.g Nimbus (2-7 Km)
3. low level (0-2 km e.g stratus, cumulus



grass provides
with vitamins.

orophyll is a
een pigment
the grass which
lps freshen your
t's breath.

broad beans

syringe

cups

1. What is Coronavirus?

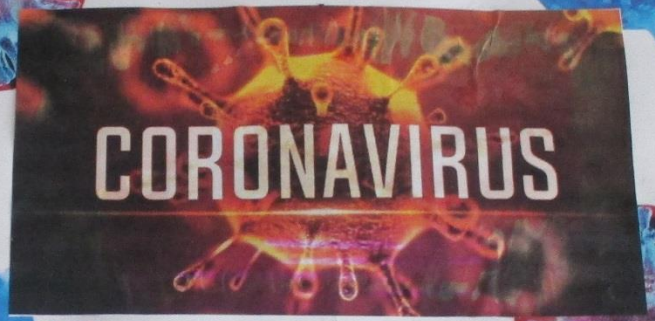
Coronavirus are a large family of viruses that can cause a wide range of illnesses. Covid-19 is a new strain that has been identified on humans for the first time.

3. How does the virus spread?

The new virus started in Wuhan, China and is thought to spread via droplets that people cough sneeze or exhale. It can also live on surfaces for several hours.

4. Global Spread:

The current outbreak of COVID-19 resulted in roughly 7000 cases in China during the first month. After this there were a further 80,000 cases reported globally during the second mont (Feb 2020).



2. Types of Coronavirus:

Coronaviruses can be mild such as the common cold or severe like the Middle East Respiratory Syndrome and Severe Acute Respiratory Syndrome.

5. Symptoms:

The common signs are
- High fevers
- Cough
- Breathing difficulties
- Muscle pain
- Tiredness

6. Prevention and Treatment:

There is currently no specific treatment for Coronavirus. All treatment is targeted that symptom relief, people are asked to stay in isolation, regularly wash hands and stay away from people who are unwell.

8. Who is affected?

Generally the disease in children relatively is rare and mild. Elderly people and those with underlying health problems are more at risk in general. If you feel unwell, you are advised to contact healthcare services either online or by telephone.

By Sienna Gill Yr5

Oscar Yr5

Aim:

To see in which location the broad beans will grow the best

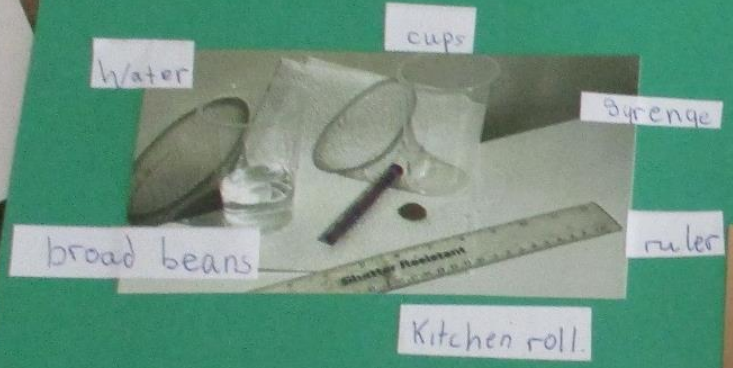
Prediction

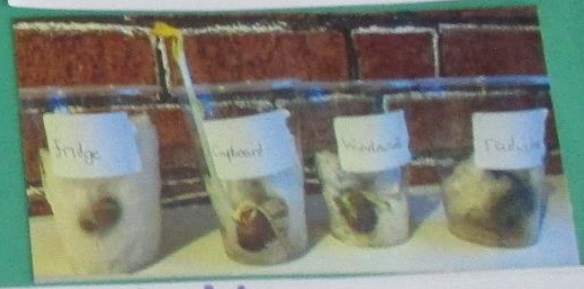
I think the plant on the windowsill will grow the best because it will have sunlight and water

Method:

1. place some kitchen roll in a cup
2. put the broad bean between the kitchen roll and the cup
3. Add 25ml of water to the cup.
4. Label the cup with the location it will go in
5. Repeat this for all 4 cups
6. place the beans in their location
7. Water the beans daily with 5ml of water using a syringe
8. Measure the bean shoots and roots daily with a ruler and record them in the results table.

equipment:





Results:

Location	Height (mm)													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Root	0	0	0	0	0	0	0	0	9	21	29	50	66	75
Windowsill shoot	0	0	0	0	0	0	0	0	0	0	0	0	0	5
root	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fridge shoot	0	0	0	0	0	0	0	0	0	0	0	0	0	0
root	0	0	0	0	0	1	8	11	59	94	123	136	171	178
Cupboard shoot	0	0	0	0	0	0	0	0	27	37	48	78	108	145
root	0	0	0	3	9	17	19	22	24	29	30	30	30	30
Radiator shoot	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Fair test

Variables to change -
Location of cup with the bean in
What to keep the same -
plant them all at the same time
amount of water given and time given
The bedding (the amount)
The cup size
Measure the plants with the same ruler

Conclusion:

My prediction was wrong because the broad bean in the cupboard actually grew the best. The bean that grew the fastest was the one on the radiator because it was the warmest. In the end it died as it had too much heat. The bean in the fridge did not grow as it was to cold. The bean in the cupboard grew the tallest as it had heat but not too much. The shoot was not green though because it had no sunlight. The bean on the windowsill took longer to grow as it was not always [illegible]. From this experiment I learnt that [illegible] is more important than light for a [illegible] to grow.

Eyes of the potato begin to grow buds.

potatoes are dug out of the soil.

Life cycle of the potato

Stalks begin to grow from the eyes.

potato is planted into the ground and a plant begins to grow.

the leaves begin to turn yellow.

sprouts and small potatoes begin to form.

A potato ~~is~~ contains potassium, vitimin C, and fiber.

Unlike that packed carrot or a bunch of dead grapes, a potato is still alive when harvested

Fun facts:

The potato is the most important non-cearal crop in the world, and the fourth most important crop over all. Only corn, wheat, and rice are more important. In the US, potato products are the second most consumed food overall, trailing only dairy products. Potatoes are 80% water and 20% solids.

WHAT HAPPENS WHEN ...

AND BAKING POWDER TO DIFFERENT LIQUIDS

INGREDIENTS

2x tablespoon of vinegar

A teaspoon of baking powder

100ml of liquid - Dr Pepper, Coke, water and sprite

WHAT I DID

I added two tablespoons of vinegar and one teaspoon of baking powder to Sprite, Dr pepper, Coke and warm and cold water to see what happened after 30 seconds and then at one minute.

WHAT I FOUND OUT

I found out that Dr pepper created the most fizzing and hot water dissolved the baking powder the fastest.

BY MATTHEW TOWNS

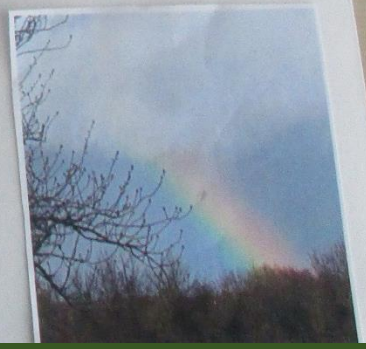
YEAR 5

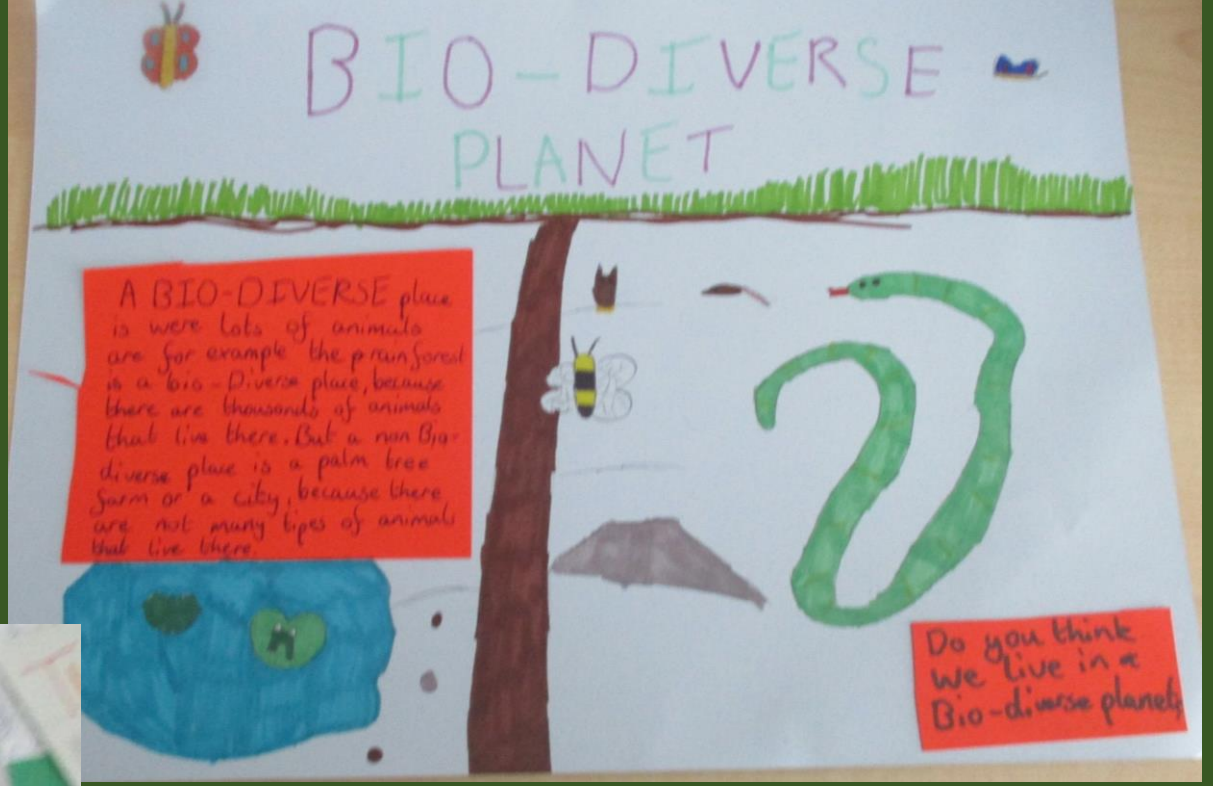
	30 SECONDS	1 MINUTE
COKE	FIZZING AND FROTHING A SMALL AMOUNT	1 MIN 30 SECONDS STILL FIZZING
SPRITE	FIZZING A LOT AND FROTHING HIGH	1 MIN 6 SECONDS DISSOLVED BAKING POWDER
DR PEPPER	FIZZING LOUDLY AND FROTHING THE MOST	1 MIN 14 SECONDS STILL FIZZING AND BAKING POWDER DISSOLVED
COLD WATER	CLOUDED THE WATER AND FIZZED	39 SECONDS BAKING POWDER DISSOLVED ALREADY
HOT WATER	CLOUDED THE WATER FIZZED AND BAKING POWDER DISSOLVED	

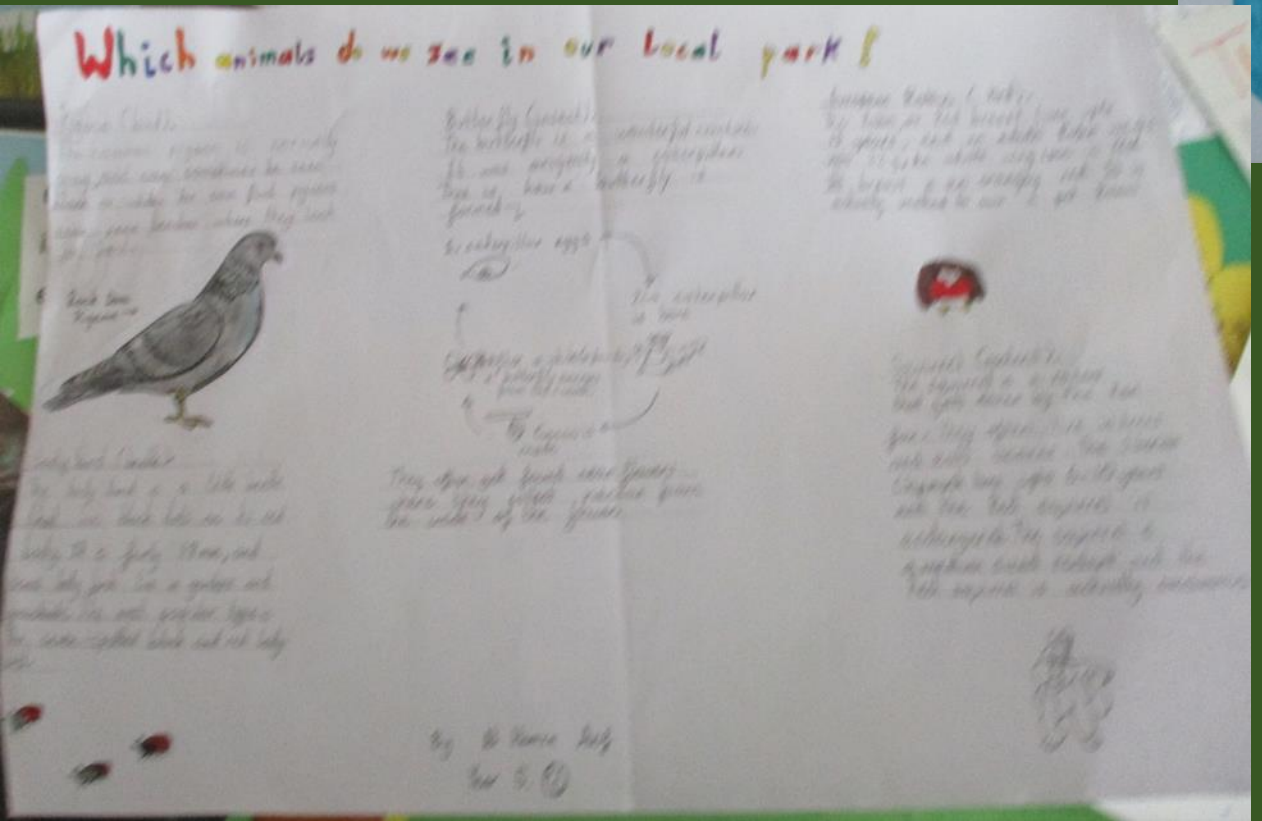
The Weather! by Phoebe (Year 5)

Weather Data Table from Darney Beach

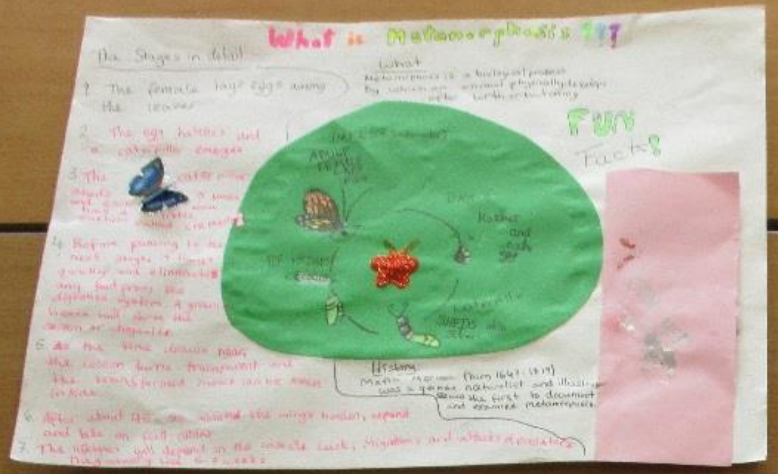
Date	Temperature	Rain	Sunshine	Wind
Mon 2nd March	7°C	—	✓	✓✓
Tues 3rd March	8°C	✓	✓	✓
Wed 4th March	7°C	✓	✓	✓
Thurs 5th March	8°C	✓	✓	—
Fri 6th March	9°C	—	✓	—
Sat 7th March	10°C	—	✓	—
Sun 8th March	12°C	✓✓	✓	✓

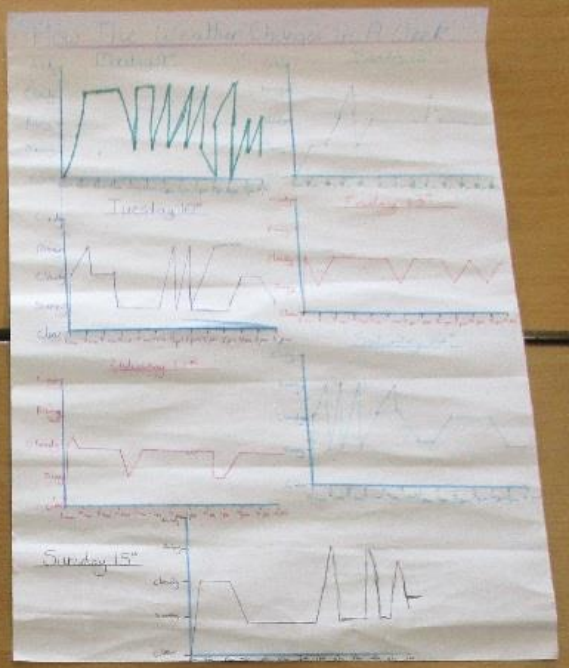



BIO-DIVERSE
PLANET
A BIO-DIVERSE place is were lots of animals are for example the rainforest is a bio-Diverse place, because there are thousands of animals that live there. But a non Bio-diverse place is a palm tree farm or a city, because there are not many tipes of animals that live there.
Do you think we live in a Bio-diverse planet

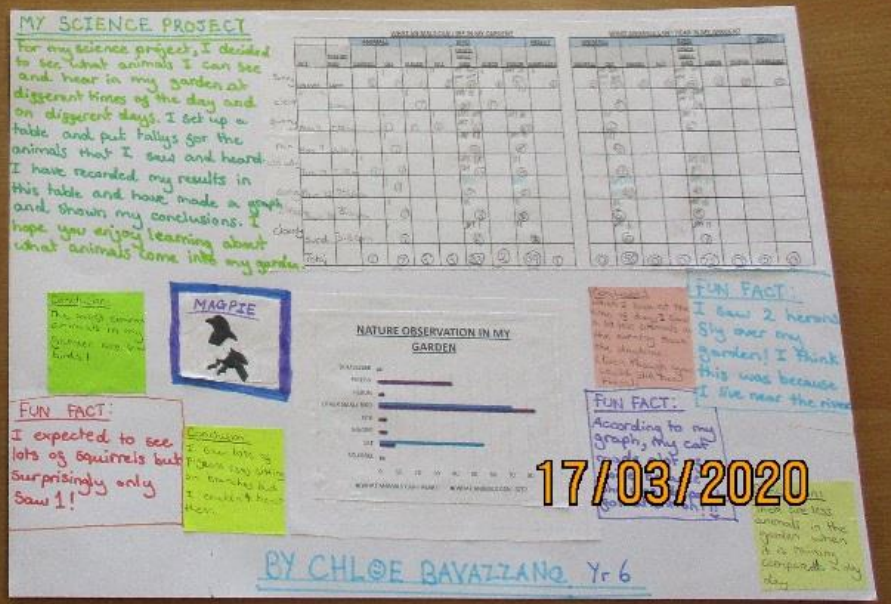

Which animals do we see in our local park ?

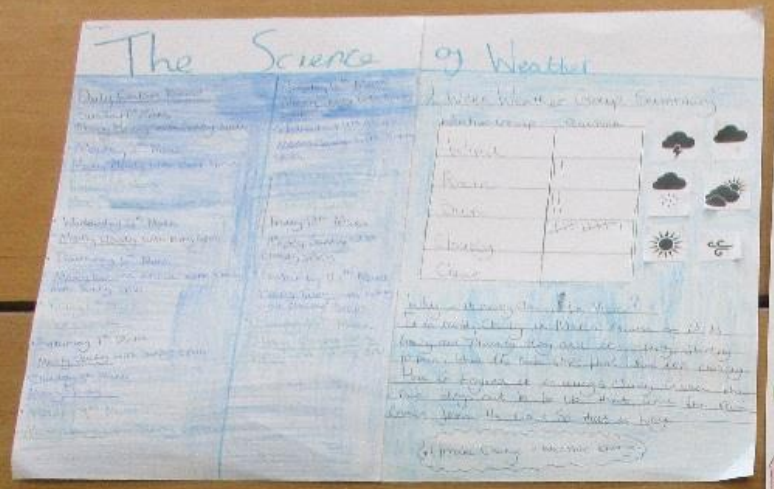
Year 6


What is Metamorphosis?
The Stages in detail
Fun Facts


Tuesday 14th
Sunday 15th

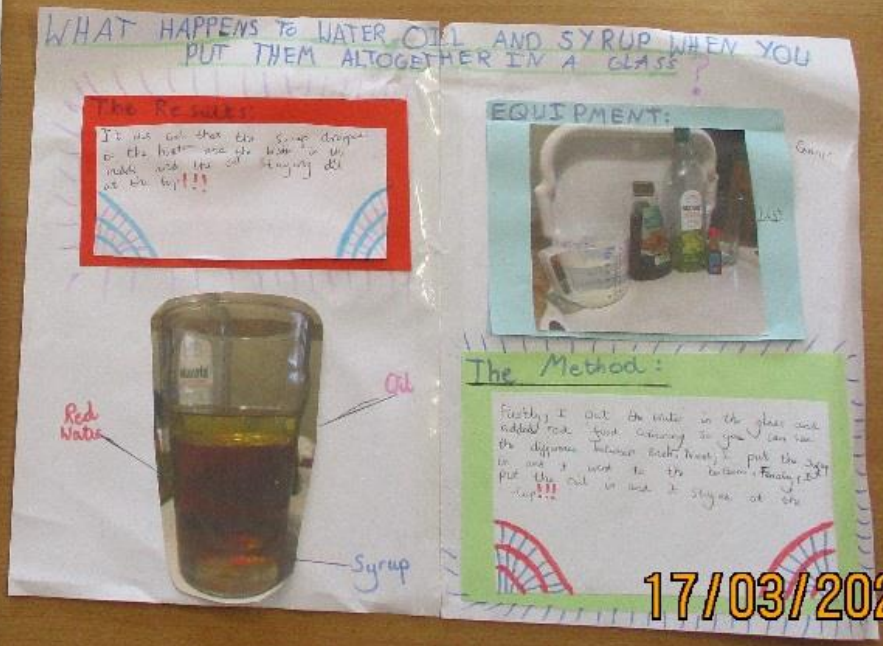

FINDING OUT ABOUT FRUIT
PINEAPPLE
ORANGE
POMEGRANATE
GRAPES


MY SCIENCE PROJECT
For my science project, I decided to see what animals I can see and hear in my garden at different times of the day and on different days. I set up a table and put tallys for the animals that I seen and heard. I have recorded my results in this table and have made a graph and drawn my conclusions. I hope you enjoy learning about what animals come into my garden
MAGPIE
NATURE OBSERVATION IN MY GARDEN
FUN FACT:
I expected to see lots of squirrels but surprisingly only saw 1!
FUN FACT:
According to my graph, My cat
FUN FACT:
I saw 2 herons fly over my garden! I think this was because I live near the river
17/03/2020
BY CHLOE BAVAZZANO Yr 6

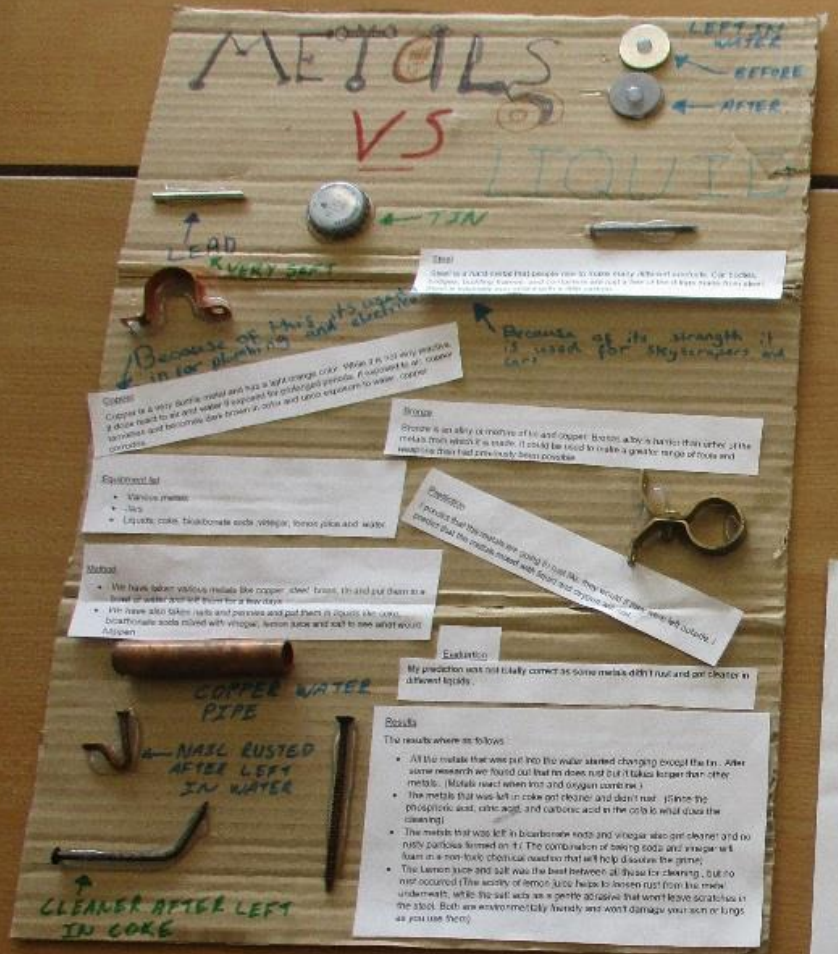

The Science of Weather

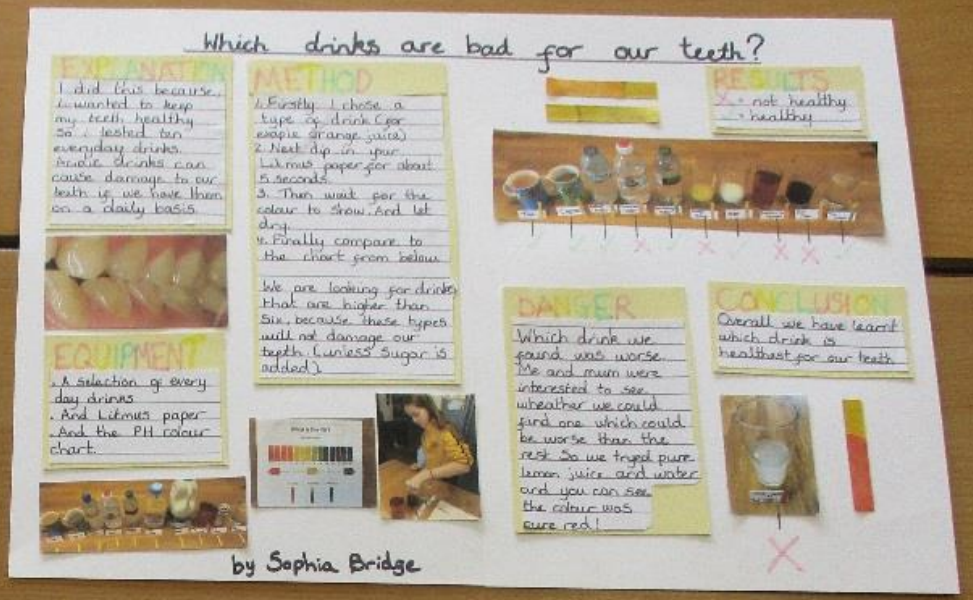

CLIMATE CHANGE!
WHAT IS CLIMATE CHANGE?
WHAT IS WEATHER?
WHAT IS CLIMATE?
HOW IS CLIMATE CHANGE AFFECTING THE SEASONS?
WHAT CAUSES CLIMATE CHANGE?
THE EFFECT ON BEES AND POLLINATORS
5 TIPS ON HOW TO TRANSFORM YOUR GARDEN INTO A WILDLIFE HAVEN!
HOW IS CLIMATE CHANGE AFFECTING WILDLIFE?

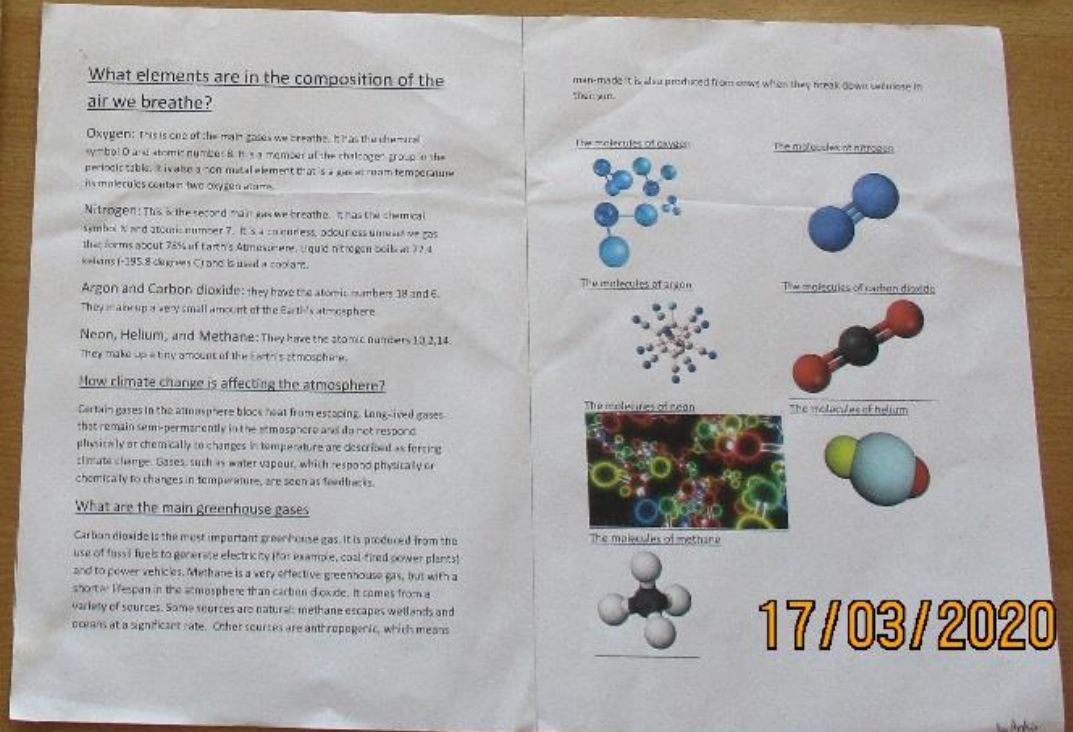

Our Diverse Planet
Mountain
Ocean
We Are One!


WHAT HAPPENS TO WATER OIL AND SYRUP WHEN YOU PUT THEM ALTOGETHER IN A GLASS?
The Results:
EQUIPMENT:
The Method:
Red Water
Oil
Syrup


SCIENTIFIC ENQUIRY ON EARTH'S AMAZING WILDLIFE
BY SOHUM SINHA (YR 6)
OUR WONDERFUL PLANET IS HOME TO SO ANY AMAZING CREATURES. SADLY A LOT OF THEM HAVE BECOME EXTINCT ANY MANY ARE ON THE VERGE OF EXTINCTION. LET'S DO EVERYTHING IN OUR POWER TO SAVE WHAT WE HAVE GOT LEFT.
THE REPLACEMENT OF COPPER & IRON.
CLASSIC DARK
Melting time:
Fat content:
20.5g
Milky bar
Melting time:
3 mins 28 secs
Fat content:
16g
Aero
Melting time =
3mins 25secs
Fat content =
15g
Dairy Milk
Melting time:
4 mins 7 secs
15g
Which chocolate melts the quickest?
17/03/2020


METALS
VS
LIQUIDS
LEFT IN WATER
BEFORE
AFTER
TIN
LEAD
Because of its strength it is used for skyscrapers and cars
COPPER WATER PIPE
NAIL RUSTED AFTER LEFT IN WATER
CLEANER AFTER LEFT IN COKE


Which drinks are bad for our teeth?
EXPLANATION
I did this because I wanted to keep my teeth healthy So I tested ten everyday drinks. Acidic drinks can cause damage to our teeth if we have them on a daily basis
METHOD
1. Firstly I chose a type of drink (for exapie orange juice)
2. Next dip in your Litmus paper for about 5 seconds
3. Then wait for the colour to show And let dry
4. Finally compare to the chart from below
We are looking for drinks that are higher than Six, because these types will not damage our teeth. (unless Sugar is added)
RESULTS
X = not healthy
✓ = healthy
EQUIPMENT
. A selection of every day drinks
. And Litmus paper
. And the PH colour chart
DANGER
Which drink we found was worse. Me and mum were interested to see whether we could find one which could be worse than the rest So we tryed pure lemon juice and water and you can see the colour was sure red!
CONCLUSION
Overall we have learnt which drink is healthest for our teeth
by Sophia Bridge


What elements are in the composition of the air we breathe?
Oxygen: this is one of the main gases we breathe. It has the chemical symbol O and atomic number 8. It is a member of the chalcogen group in the periodic table. It is also a non metal element that is a gas at room temperature its molecules contain two oxygen atoms.
Nitrogen: This is the second main gas we breathe. It has the chemical symbol N and atomic number 7. It is a colourless, odourless element we gas that forms about 78% of Earth's Atmosphere. Liquid nitrogen boils at 77.4 kelvins (-195.8 degrees C) and is used a coolant.
Argon and Carbon dioxide: they have the atomic numbers 18 and 6. They make up a very small amount of the Earth's atmosphere
Neon, Helium, and Methane: They have the atomic numbers 10,2,14. They make up a tiny amount of the Earth's atmosphere.
How climate change is affecting the atmosphere?
Certain gases in the atmosphere block heat from escaping. Long-lived gases that remain semi-permanently in the atmosphere and do not respond physically or chemically to changes in temperature are described as forcing climate change. Gases, such as water vapour, which respond physically or chemically to changes in temperature, are seen as feedbacks.
What are the main greenhouse gases
Carbon dioxide is the most important greenhouse gas. It is produced from the use of fossil fuels to generate electricity (for example, coal-fired power plants) and to power vehicles. Methane is a very effective greenhouse gas, but with a shorter lifespan in the atmosphere than carbon dioxide. It comes from a variety of sources. Some sources are natural: methane escapes wetlands and oceans at a significant rate. Other sources are anthropogenic, which means
man-made It is also produced from cows when they break down cellulose in their gut.
The molecules of oxygen
The molecules of nitrogen
The molecules of argon
The molecules of carbon dioxide
The molecules of neon
The molecules of helium
The molecules of methane
17/03/2020

All about Red Squirrels

Amazing climbers

Adorable

Cute

Adventurous

What Animals Live In My Garden?

VERTEBRATES

MAMMALS

BIRDS

Hedgehog

Robin

Fox

INVERTEBRATES

WORMS

SNAILS & SLUGS

INSECTS

SPIDERS

What happens to bread in 2 weeks

Observing over time!

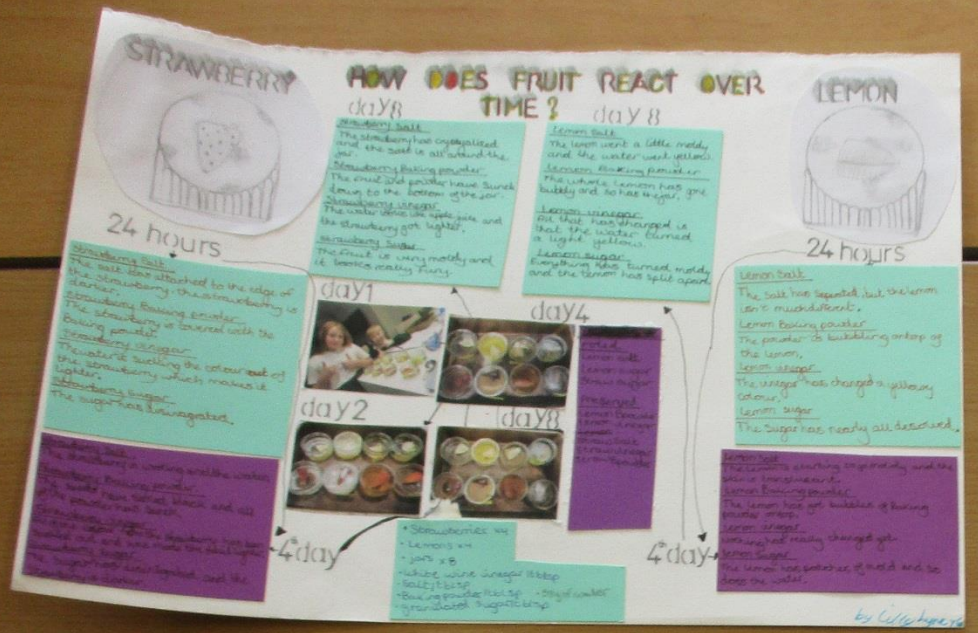
On the seventh day the bread started to curl but did not mould at all over the last 2 weeks!!!

I had fun doing the experiment even though they must have added preservetives to the ingredients!!

The bread did not go mouldy because of the amoune of preservetives in the ingredients!

Aaron Yr 6

17/03/2020



How many times do you have to shuffle cards, for them to be fully shuffled?

All you need is a deck of cards and a pair of hands .

Method

1.Sort the cards into order of suit

2.Shuffle the cards once and check the order of the cards. Continue to do this checking each time how well the cards are shuffled. Remember to keep a record of how many times the cards have been shuffled

Prediction

I predict that it would take about 3 to 4 shuffles for the cards to be adequately shuffled.

Results

I found it took 7-8 times, for the cards to be fully shuffled. I was incorrect with my original theory of 3 to 4, it took twice as many shuffles for cards to fully combined.

By Noah Wylie y6

Sharks

Sharks are ocean creatures or are some people call it marine life. They do lay eggs and they also give birth to live young. If they lay eggs they are oviparous and if they give birth to live young they are called viviparous.

Shark teeth come in many different sizes, shapes, colour and sharpness.

There bodies

Sharks have three main body parts, the head, trunk and tail. Sharks have gills on both sides of their head, the gills filter oxegyn from the water. Sharks usually have 5-7 pairs of gills on there body.

Did you know?

Sharks don't have any bones in their body as it is entirley made of cartilage.

Sharks have over 50,000 teeth in their life. Most sharks have teeth in layered rows, they don't regrow teeth one by one but they have lots of rows inside their mouth which are constantly regrow

Whale Sharks

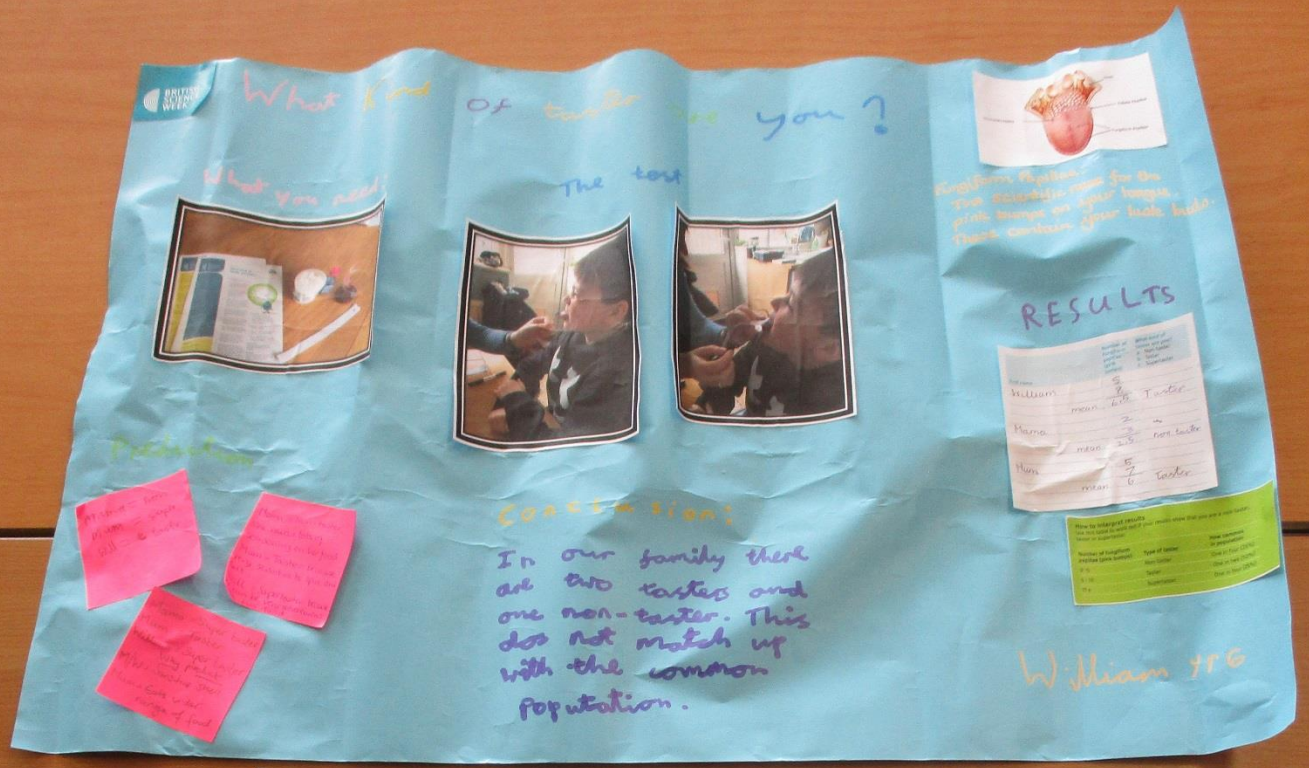
Whale sharks are the largest sharks in the world. They are about 40 feet, whale sharks eat plankton, krill, fish eggs and small fish. Whale sharks are ominvores and are quite harmless. Most whale sharks migrate.

What is the smallest shark in the world?

The smallest shark in the world is the dwarf lanternshark. It's maximum length is 20 cm long.

by Jessica Needs Yr 6

17/03/2020


What kind of taster are you?
What you need:
The test
Prediction:
Conclusion:
In our family there are two tasters and one non-taster. This does not match up with the common population.
RESULTS
William
mean
Taster
Rama
mean
non-taster
Ram
mean
Taster
William Y6


ELEPHANT TOOTHPASTE
WHAT YOU'LL NEED
STEP 1
STEP 2
STEP 3
STEP 4
STEP 5
SUCCESS
food colouring
soap
dish soap
hot water
Hydrogen Peroxide
a cup
Ruler
info
ADD IN
8 drops of food colouring
1 cup hydrogen p.
1 tbs of dish soap
NOW MIX!
ALSO POUR IN YOUR EMPTY BOTTLE
NOW ADD BOTH MIXTURES TOGETHER AND TAKE A STEP BACK. HERE'S WHERE IT GETS SUPER INTERESTING!
I had much fun and enjoyed my experiment. (Pictures above)
By... Mikiel Palmer

17/03/2020