

**Classification of animals**

**Eats meat (Carnivore)**

**Eats plants (Herbivore)**

**Eats both (Omnivore)**

**Life Processes:**

- Movement
- Respiration
- Sensitivity
- Growth
- Reproduction
- Excretion
- Nutrition
  - omnivore
  - herbivore
  - carnivore

**Animal Groups and Characteristics:**

- Mammals:** Give birth to young, have milk glands, live on land, water, or in air.
- Insects:** Have six legs, antennae, and wings.
- Molluscs:** Have a soft body, a shell, and a siphon.
- Fish:** Live in water, have gills, fins, and scales.
- Reptiles:** Have a scaly skin, lay eggs, and live on land.
- Amphibians:** Live both on land and in water.
- Birds:** Have feathers, lay eggs, and can fly.
- Plants:** Have roots, stems, leaves, and flowers.

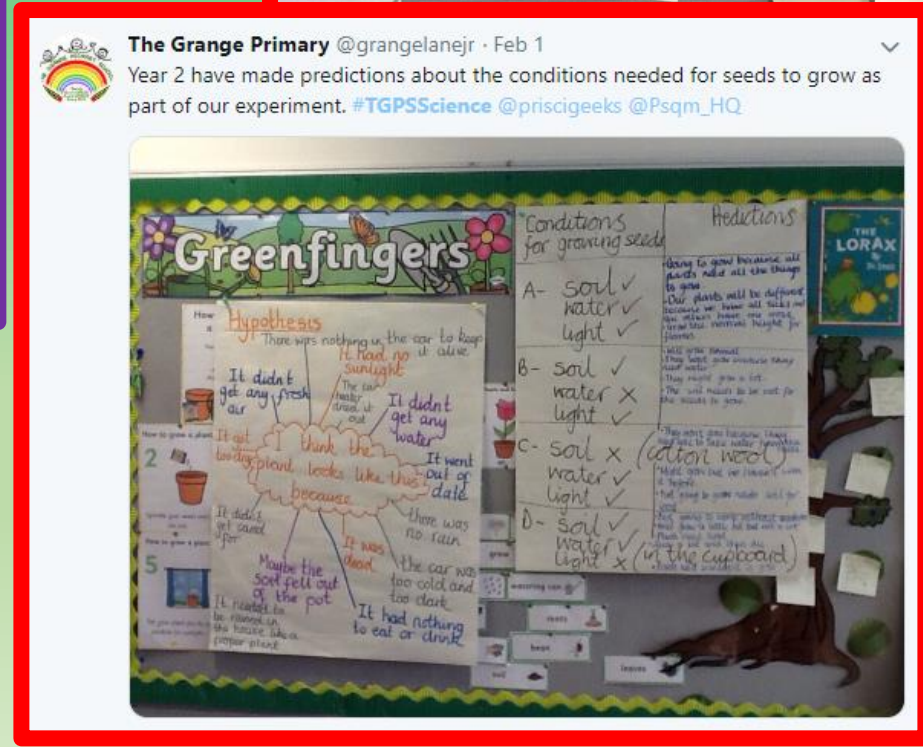
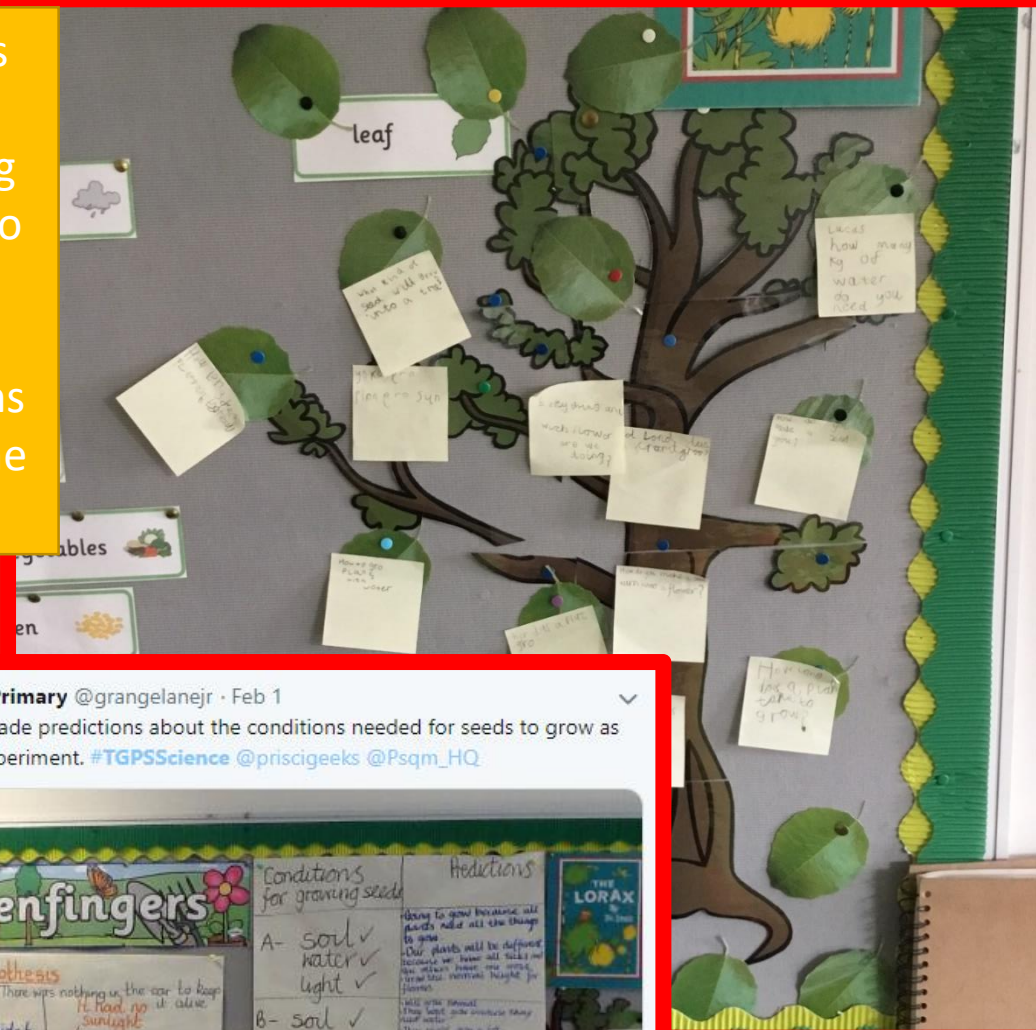
**Classification Questions:**

- Does it have wings? (insects, birds)
- Can it swim? (fish, aquatic mammals, amphibians)
- Has it a long neck? (giraffe)
- Is it a carnivore? (lion, tiger, eagle)
- Is it a herbivore? (rabbit, deer)
- Is it an omnivore? (human, pig)

**Classification of Animals:**

meat eater (carnivore)	plant-eater (herbivore)	omnivore
lion, tiger, eagle	giraffe, squirrel, antelope	human, pig

Children's questions  
are displayed on the  
working wall.





# Five Types of Enquiry

**The Grange Primary @grang**  
2K have investigated food chains for our Science lesson. We have dissected an owl pellet to see what they eat! Can you guess? #TGPSScience #BSW19  
@priscigeeks @ScienceWeekUK @Psgm\_HQ



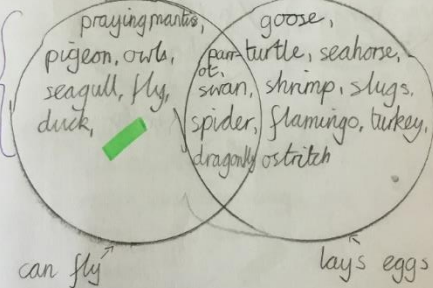
Pattern seeking

**The Grange Primary @grangelanejr** · Jan 30  
Year 3 have carried on identifying and grouping rocks according to their properties. #TGPSScience #TGPSYear3 #TGPWorkingScientifically @P  
@priscigeeks



## Identifying, classifying and grouping

TLC: Can I group animals based on their characteristics?



## Researching using secondary sources

5 types of enquiry are now used across all year groups – teachers identified their own areas of types of enquiry



TLC: Can I identify parts of a plant?

A drawing of a flower

**Hypothesis**  
I think that all flowers have roots and leaves. My hypothesis is is.

## Comparative and fair testing

	I can see...				
	Flower	Petals	Leaves	Stem	Roots
Bellis	White yellowish green	20 thin tall	hairy lots	little tall	small
Primula	pink yellow	several twelv	several	one	thick
Daffodil	yellow orange	five or more	a little but small	medium	ten
Pansy	purple yellow black	seven	thick	lot's thin	thick

## Observing over time



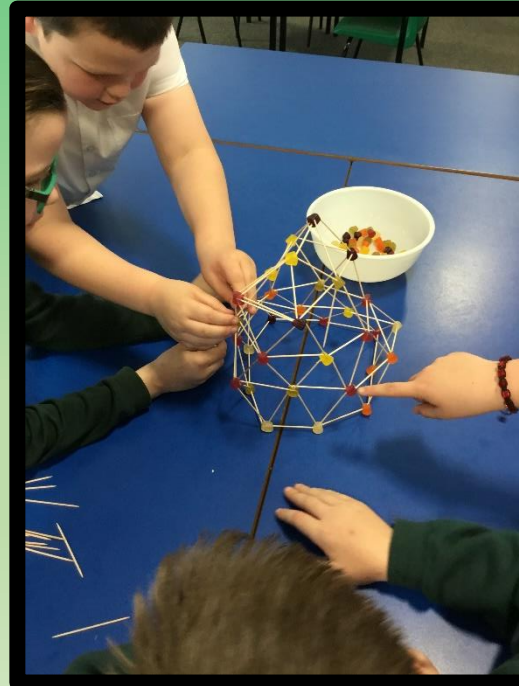
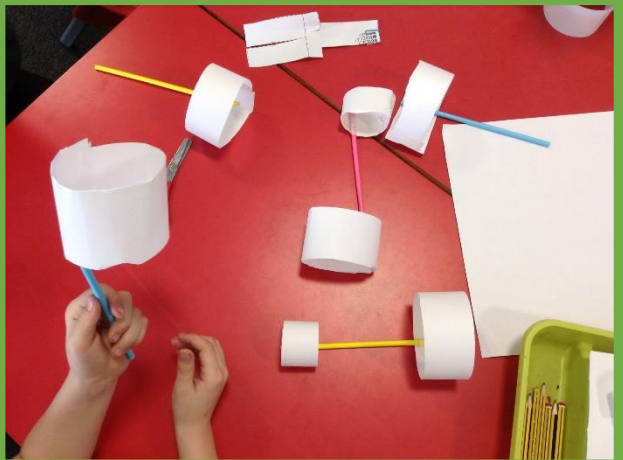
L1, T2

**Pre-PSQM**  
Staff were not aware of all of the 5 types of enquiry and hadn't previously planned lessons to suit all types of enquiry



# Science Week

All year groups completed a Science week activity, completed an investigation, used Explorify and was observed in science teaching





# Trips, Visits and Experiences



We enjoyed the hands on activities in our workshop. We had lots of questions answered



"Looking around Morrisons was really interesting" Y4

"I haven't made pizza before. It was fun." Y1

We engaged with the wider community to offer experiences that engaged the children

The Grange Primary @grangelanejr · Jun 7  
The Science and DT representatives are making their own pizzas.  
#TGPSDT @Psgm\_HQ



The Grange Primary @grangelanejr · Feb 27  
We have received our potatoes! @potatoes4school #TGPSscience #growyourown



The Grange Primary @grangelanejr · Feb 27  
Our potatoes are set for chitting. #TGPSscience #TGPSenrichment @potatoes4school

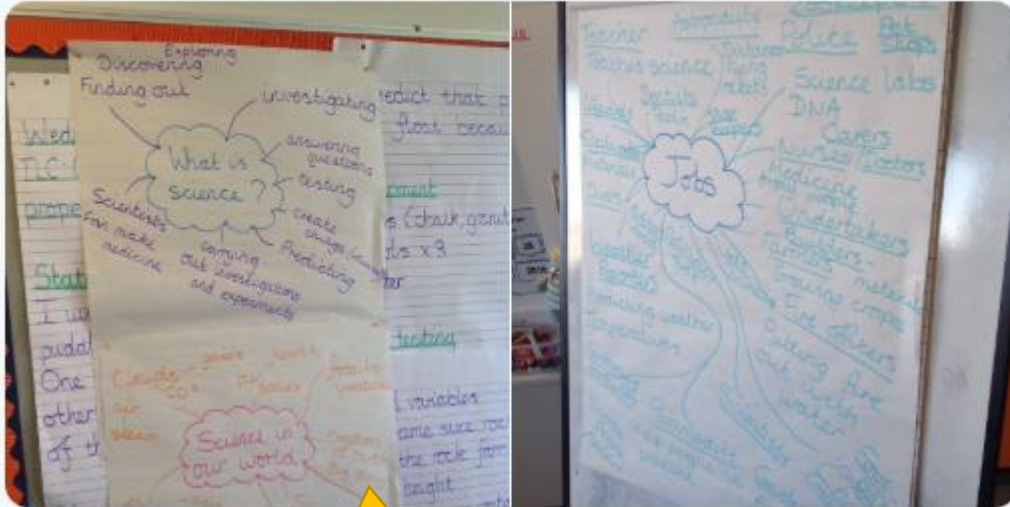


# Science Capital



**The Grange Primary** @grangelanejr · Mar 11

Science week has started. For #BSW19, year 3 have talked about science. Here are our ideas. #TGPSYear3 @Psqm\_HQ @ScienceWeekUK #TGPSScience



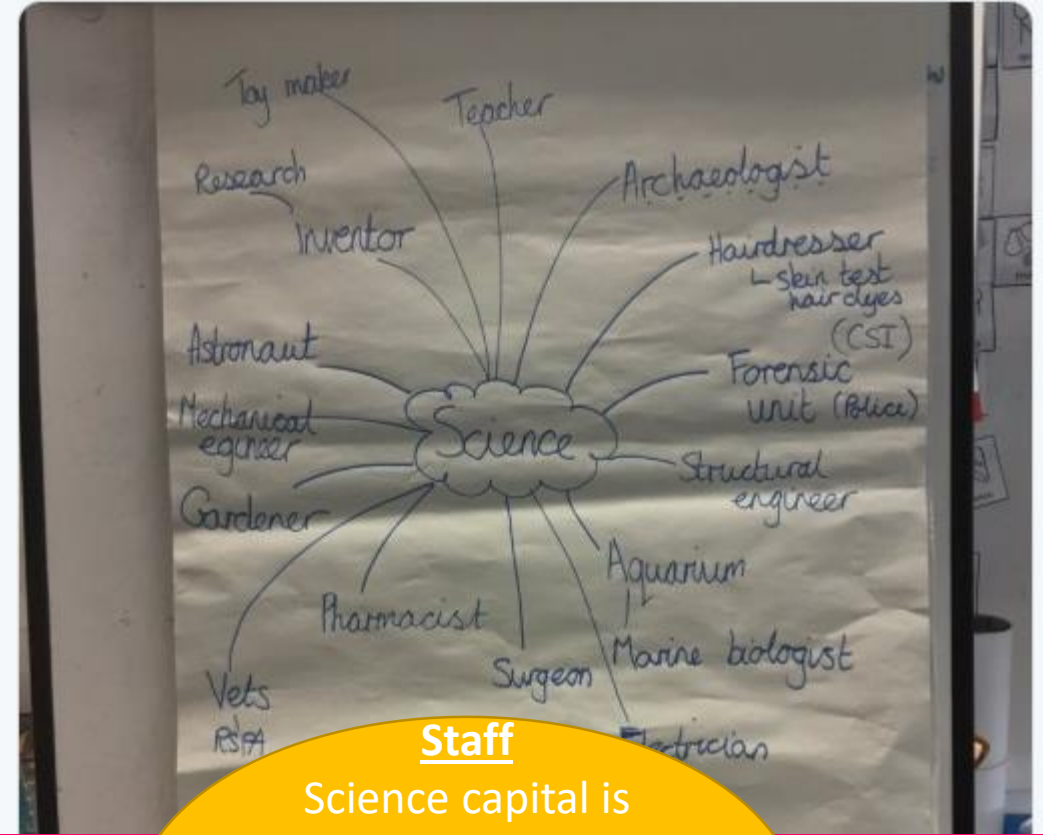
## Pupil Voice

After raising the profile of science children have started to relate science to jobs across professions



**The Grange Primary** @grangelanejr · Mar 14

5S discussed how science relates to jobs that we might want have when we are older. @Psqm\_HQ @ScienceWeekUK #TGPSScience #sciencecapital #TGPSclassassembly

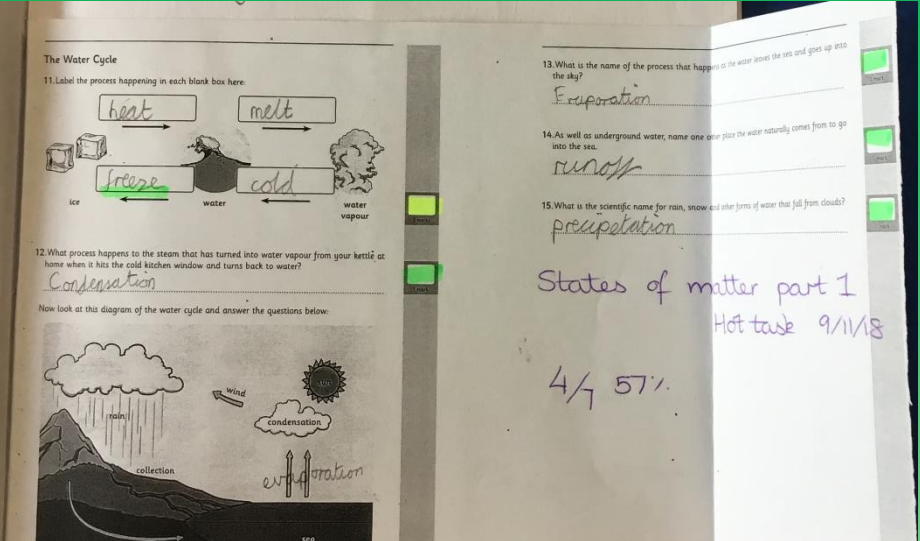


## Staff

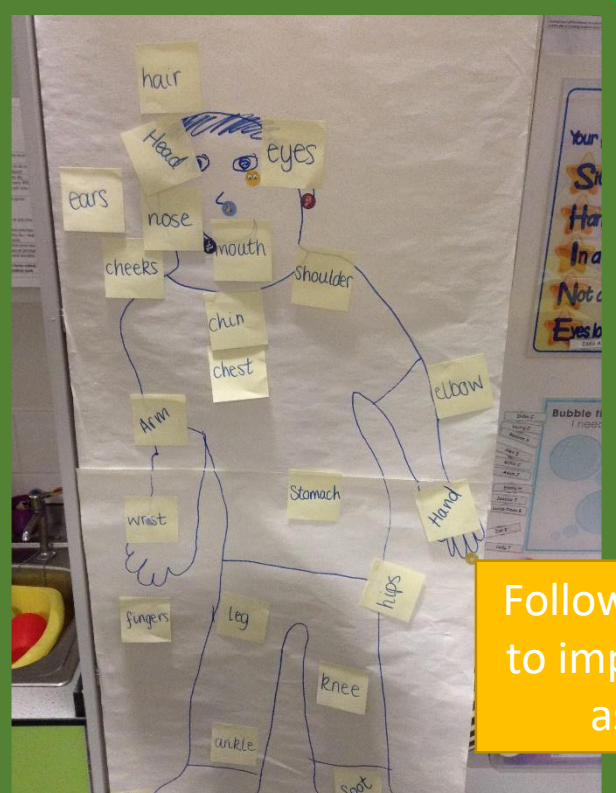
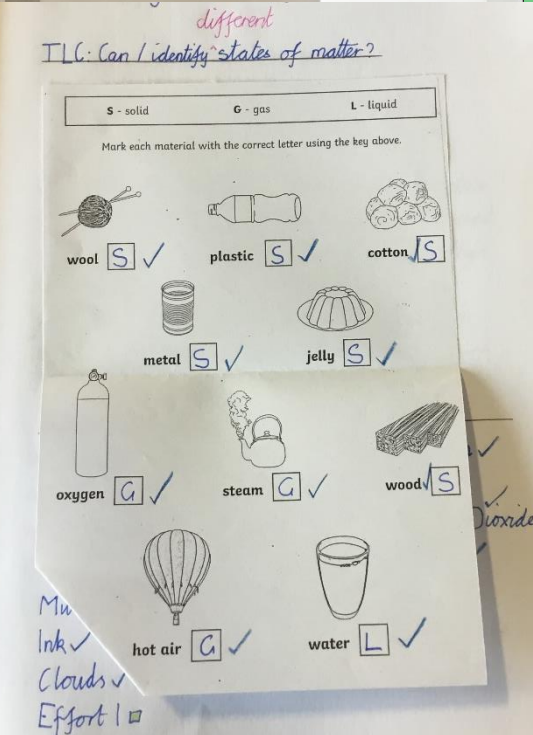
Science capital is making children aware of how science is relevant to them. We need to expose them to science.



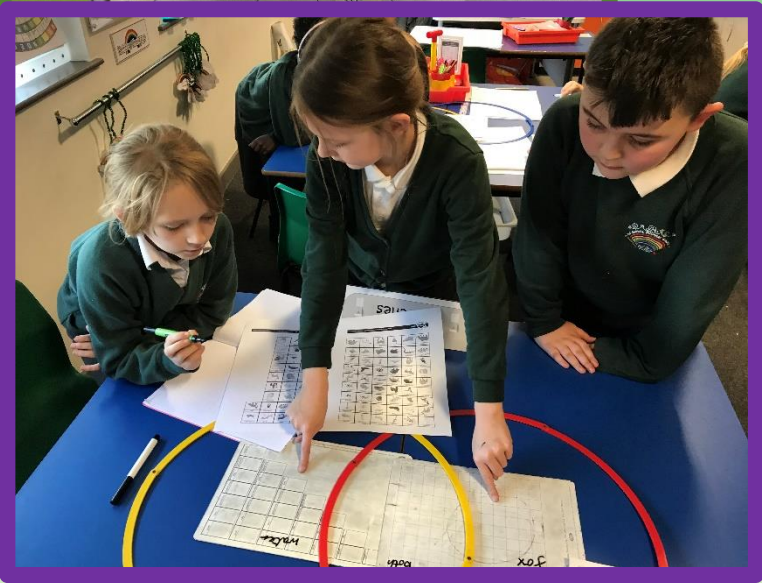
# Assessment



Assessment was formal and we used testing to show children's knowledge



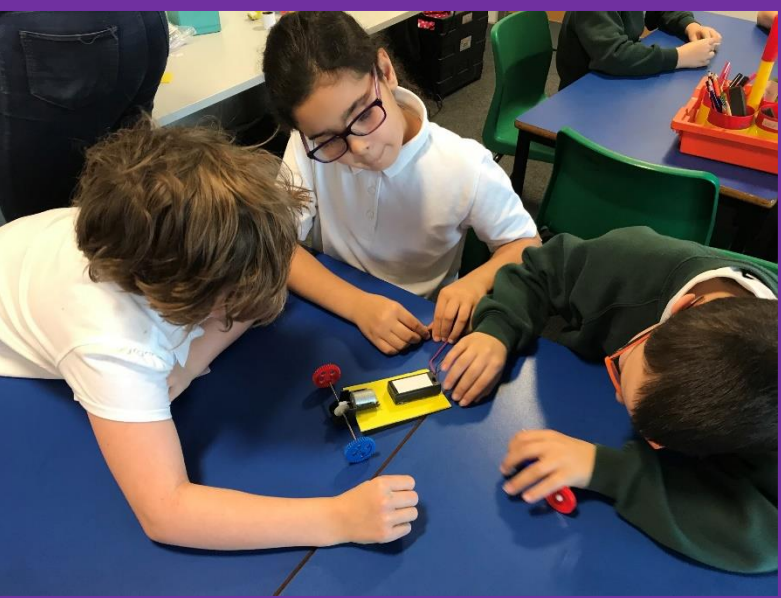
Follow RSC training staff began to implement a wider range of assessment strategies



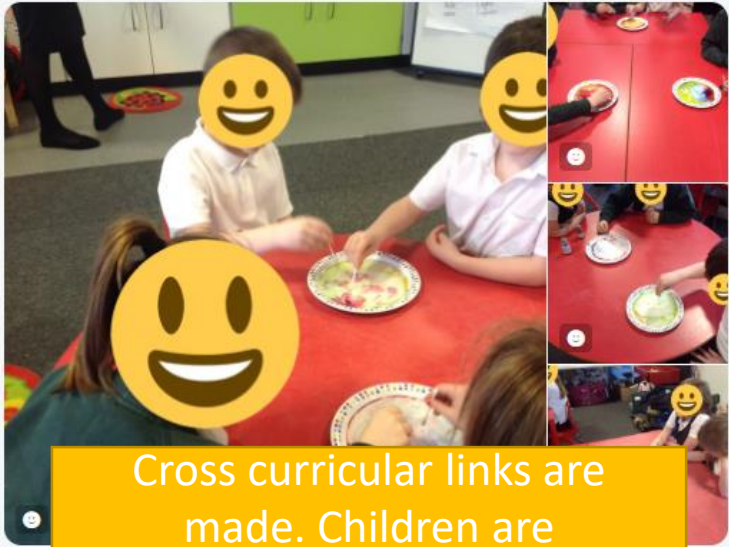
L2, SL4



# Working Scientifically



**The Grange Primary** @grangelanejr · Mar 13  
Science club have been looking at magic milk. #TGPSScience  
#TGPSBritishscienceweek @priscigeeks @ScienceWeekUK @Psqm\_HQ #BSW19  
@FrancescaVarley @WowScienceHQ




Cross curricular links are made. Children are encouraged to be independent learners


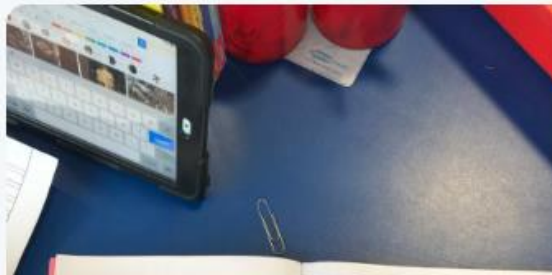
Record the results in a table

**Results**

Variable	Test 1 (cm)	Test 2 (cm)	Test 3 (cm)
3 sticks			
4 sticks			
5 sticks			



**The Grange Primary** @grangelanejr · Feb 1  
Year 4 have been using iPads to independently research how animals have adapted to their environment. #TGPYear4 #TGPSScience #TGPSICT  
#TGPSResourceful @Psqm\_HQ @priscigeeks @FrancescaVarley @MrsPassSci



1 3



**The Grange Primary** @grangelanejr · Mar 18  
We are identifying and counting our pulses and relating this to the pulse in music. #TGPYear4 #TGPSScience @Psqm\_HQ @priscigeeks @FrancescaVarley @MrsPassSci





# Working Scientifically

The Grange Primary @grangelanejr · Mar 15

During reflective time, year 3 have reflected on their science learning this week.

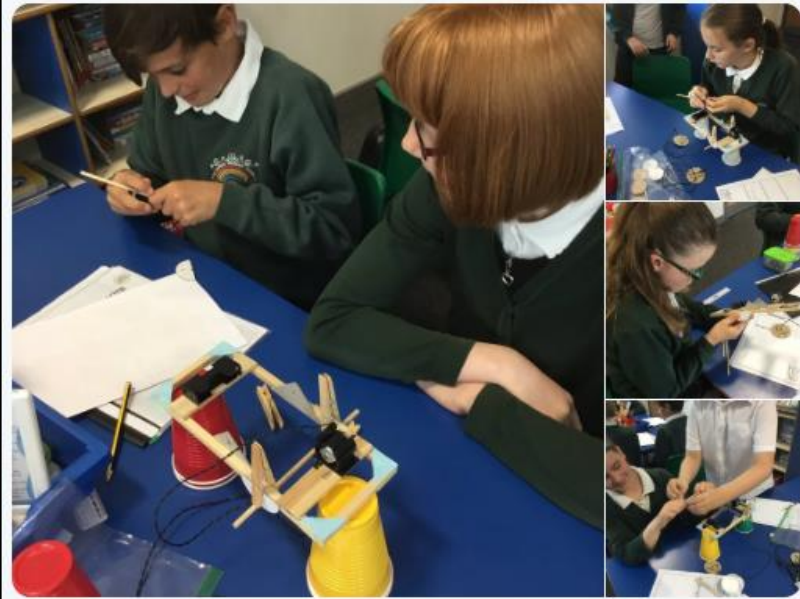
#TGPSScience @Psqm\_HQ @priscigeeks @ScienceWeekUK #BSW19

#TGPSYear3 #TGPSReciprocal #TGPSReflectivetime



The Grange Primary @grangelanejr · Jun 18

6T have moved onto the next stage of their electric vehicles: they are preparing for the wheels. #TGPSDT #TGPSScience #TGPSYear6

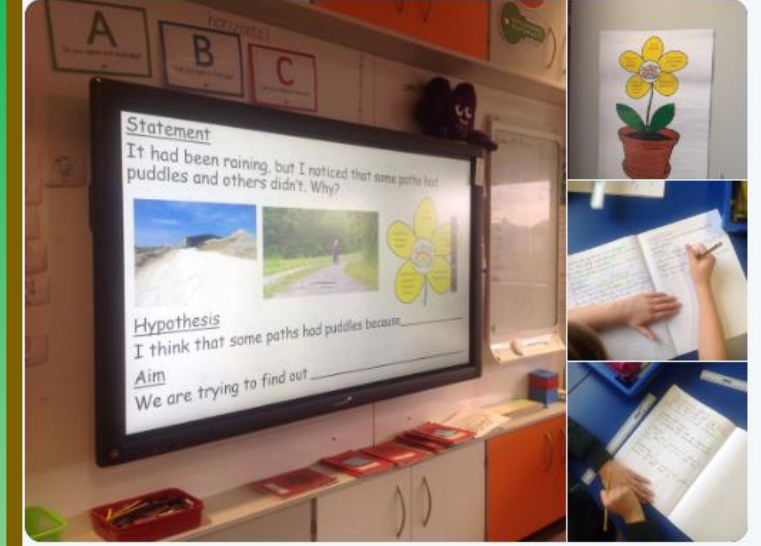


Working scientifically evident across all classrooms, in all science units. Teachers plan well resourced lessons which enable children to question and develop their thinking

The Grange Primary @grangelanejr · Mar 12

3G are hypothesising this afternoon. We are planning an experiment to investigate the properties of rocks. #TGPSScience #TGPSYear3 #BSW19

@ScienceWeekUK We are making sure we follow our core principles. @Psqm\_HQ @priscigeeks #TGPSReciprocal #TGPSWorkingscientifically



The Grange Primary @grangelanejr · Feb 26

Year 3 have found that rocks sink in water. Some of us went on to find out why.

#TGPSYear3 #TGPSScience #TGPSWorkingscientifically @Psqm\_HQ @Psqm\_HQ

