### Farnborough partnership making Science news The making Oader physics aden matter matter Irust

Year 6 have focussed on the skill of evaluating other scientists work making decisions on who to hire in their new engineering company.

Do you approve or reject these circuits? Evaluate each one and explain why person a I approve Attris circut 4 NINE HOUSE + |----| because the positive and He negative has it's own sides? They also have straight lines and D - Onises - types h neet up at a point ? I reject person B because because they does not have straight lines and they also have rounded corners and doit weet up at a point \* - @ talings |- e+ HH I reject person c beaux they made a short circuit. they made a short current view the switch is on, it's going to the battery back and forth again. and of Soon, when it overheat it will explode. ···· @ hitsets ···· type Circuit diagram for an 🏾 🎆 electronic bee with buzzer. \* They haven't used a ruler and a switch so it will be going on foreyer. \* The lines that meet at a 90° degree ongle

(0)



### A scientist just like me



Erusa Adizie **Innovation Engineer** 



### A SCientist just like me

### Hi there! I am Erusa Adizie – An innovation engineer

### Where do I work?

I work for a renewable energy company. It produces around 6% of the UK's electricity from renewable resources such as sustainable biomass (plant materials) and water.

### What did I like doing when I was at school?

I was always a technical person and maths was probably my favourite subject. I think that I always knew that I wanted to be an engineer.

### What do I like doing in my spare time?

I really enjoy learning new things. Right now, I'm learning Mandarin in my spare time - it's a surprisingly difficult language!



I wonder what kind of scientist you might be?

making physics matter

# The Ogden Prust Making Making

making physics matter



Year 5 have focussed on forces and how they act in every day life. They showcased their knowledge at the end of the unit. By Eben and Imogen year 5

ioweased then knowledge at the c	end of the unit. By Eben and mogen year 5	
	<u>A</u>	
	Why and how do things move?	Friction
	What is Water Resistonce?	triction is where too objects rub against each other, creating grip.
	Water resistance is the sorce that pushes you dawn back	It's used in everyday life on style like tires and shoes Frittions
	stile your singer logother while	smooth or burgy-on-burgy thenise
	back so you nove gowards.	more.
	is pulling me 7	
	this river!	Levers and PulleysPulley
	What is a 12-545t 7	A Lever or Pulley Geor
	Ar rest mere of the care that	requiring zero
	prote you up. towere, then	takes on heavy P Lever
	it (e.g. porachite) you stor down and full. The shapper the object	then easier to
	is when facing downwards, it falls quicker as it pushes	They are used
	AU resistance back.	people all that
	D	
A	The second second	
that is warter recisting	Aurente to a an	
he water that got again	that slows you down	
g of vergena loak.	also an asoplane solit gills	
	areatte slover you gall.	
andre warter resistance WHS DO TTHS	SN GC	
ty and rating MOVE ?		
reporting the Ber structure	and a state	
angreen		
That is pition?	Handler estimation tale man	
tion is a force the to bunger sugar	raction can certe pares note	
	grip to the ploor when runing	



## The Design of th



In Autumn 2, Y1 at South Farnborough Infant School learned to identify, describe and group materials. The children ended this unit of work by finding out about a materials scientist called Pearl Agyakwa. They were amazed to learn that the x ray microscope that she uses to look inside different materials cost half a million pounds! As part of her job Pearl finds out new facts about everyday materials and discovers why materials behave the way they do, why we make something out of one material rather than another and why materials weaY1 followed up learning about Pearl by being materials scientists. The really enjoyed carrying out a test to find out which material was strong enough to make a bridge for toy cars.









making physics matter

Y1 followed up learning about Pearl by being materials scientists. The really enjoyed carrying out a test to find out which



material was strong enough to make a



bridge for toy cars.





Houston we have a problem!

We used our Ogden Trust resources to have a fabulous project all about space! We explored the wonder of the solar system with our inflatable planets. Through this, we discussed why the sun is at the centre of our universe and the correct placement of the planets. We also learnt about orbits and how Earth rotates. For our project outcome, we presented everything we had learnt about space to our parents. We had designed and made space homes which we showed as well.

Watk's C.E. Primary School





### Farnborough partnership making Science news The making The Ogden Ogden physics matter Trust Trust matter Using the Phizi resources year 6 have had fun learning about electricity. - focussing in on electrical symbols used by scientists across the world, electrical safety and the skill of collecting and Thursday 14th November 2024 1. O. How do I drow a circuit diagne presenting Enday 6th, December 20211 Can l'advise people on how to be saye aroug data. electricity? Serie circuit two switch a bills Ø out on Sharp pencile Series circuit motor Envice bulbs Wever label the Electricity is an electric a material, for example. charge throw through $\frown$ 0 1000 11-8 electricity is supplied to buildings through oversead power times and pyrons 4 -00- $A \mid \otimes$ Do keep Don't put electrics any electric devices from water in the bathroom. 29th November 2024 Friday Pont put Conducters (metric into outputs or toasters. Do keep your jingen out of outputs. DON'T LOUCH LO: Can I record data accuratly accurately? a circuste All electric equiptant (line pu in schools have been PAT tested so they are safe. only touch a write is an insulated is on it REMEMBER plastic cover Will this circuit work? Why/why not? $\otimes$ No because the light bulb is not connected to the tou does I nenot op attantes sect le clarezon he pazzen by circut Control Variable VOLTAGE How does the $\otimes$ Correct way 1 in the lo londer be How does the number of batteries in a circut affect the No. Brightness of bulb cluss of Batteries Test | Fest 2 Test 3 Ave D.59 1.2 brightness of the bulb? 3.0 2.8 . 8 55 48.7 40 51



### The Ogden Indiana Science news The Physics Trust Making Science news The Ogden Indiana Science news The Ogden Indiana Indiana





### Astronauts in space for eight days now stuck at ISS for eight months

Two Boeing Starliner astronauts stranded in space for 80 days will have to stay put for another six months,

NASA officials confirmed on Saturday Florida time. Astronauts Barry Wilmore and Sunita Williams are safe, in good spirits and now expected to return to Earth in February.

Exoplanet 55 Cancri e found to have atmosphere in scientific first

Astronomers have discovered an atmosphere surrounding the super-Earth planet known as 55 Cancri e.

Two instruments on board the James Webb Space Telescope were used to measure the light coming from the planet, which is 41 light years from Earth and was first discovered in 2011.

For years, astronomers had been searching for rocky planets beyond our solar system with an atmosphere, something that is considered essential for hosting life.

### Blue Comet Fragment in Portugal

streaking across the sky as a singer performed!



Locals have been left stunned after a mysterious blue fireball flashed across the sky in parts of Spain and Portugal on Saturday night, May 18th 2024.

First thought to be a meteor, the European Space Agency (ESA) later explained that the flash was caused by the fragment of a comet as it sped over European skies at 45 km per second before burning up over the Atlantic Ocean.

During a concert in the Portuguese city of Barcelos, the object was filmed



matter

Trust



### The Ogden Trust Making Science news The Ogden Trust

making physics matter

Year 5 have been learning about different forces, including gravity, air resistance and water resistance. To find out the relationship between surface area and air resistance, the children first hypothesised that a larger surface area would lead to a greater amount of resistance. Then, they made different sized parachutes out of plastic bags and string to test out the hypothesis. They were able to conclude that larger surface areas caused more friction and air resistance, therefore falling slower!



Trust

matter

Amount of		Time (seconds)		
Tests	Small Parachute	Medium Parachute	Large Parachute	
First	0,48 seconds	× 176	0. 73 seconds	
Second	0.51 seconds	2.44 second	070 l	
Third	0.63 smill	a ta i	104 - 10	T T
ment: iperant sized , I pads, celota	plastie pags. Wha pe	t will I change? he plastic bags	What Mea du	will I measure? How survey at resistance us
ment: gerent sized , I pads, celota	plastic page . Ti	t will I change? The plotte bags will I keep the same?	What Maa Ju	will I measure? How suring in resistance us prest sized bags to see air resistance and interim . I have and
ment: if what sized if packs, colota sion: where the	plasta paga. pe what have somether the	t will I change? he platte bags will I keep the same? U , peare y bego,	What Mae dy f f f f f f f f f f f f f f f f f f	will I measure? How suring in resistance us great seed bags to see in resistance and resistance and drange with servert stres









Ogden Trust School Partnership

# The Definition of the Definiti

Last half term, Year 1 looked at materials and their properties. They started by looking at different objects made of wood, metal, plastic, fabric, glass and rock. In groups they sorted and grouped these objects based on their properties. They then went on a hunt around the school to identify different parts of the school that were made from these materials. We then spoke about why certain materials were used for different purposes e.g. a window needs to be made from glass so you can see in and out of it and buildings need to be made of a strong, hard material so they don't fall down.





### Look out form

KS2 Stargazing at Salesian college for our invited Wednesday 5th February Year 5 guests.



making physics matter

Ks1 Stargazing at St Marks school Tuesday 18th March for year 2

British Science week 7th—16th March this years theme being adapt and change—and our competition to win some great prizes!

