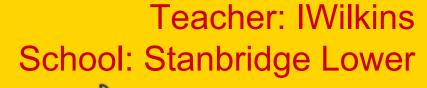


Shocking Electricity and Around the World

Wow Starter: What is electricity? Where is it? Final Event: Exhibition of Electric room models (shoe boxes)





UNDERSTANDING THE WORLD

Working scientifically LKS2

· sc32 asking relevant questions and using different types of scientific enquiries to answer them • sc33 setting up simple practical enquiries, comparative and fair tests • sc36 recording findings using simple scientific

language, drawings, labelled diagrams, keys, bar charts, and tables sc37 reporting on findings from enquiries. including oral and written explanations, displays or

presentations of results and conclusions • sc38 using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions

Electricity LKS2

sc75 identify common appliances that run on

 sc76 construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers · sc77 identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery · sc78 recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit

• sc79 recognise some common conductors and insulators, and associate metals with being good

Location knowledge LKS2

• ge27 I can identify the countries of Europe (including Russia) on a map or globe · ge28 I can identify North and South America on a

• ge30 I can talk about the environmental regions and key human and physical characteristics of the countries I can identify · ge35 I know how and why human and physical

features in the landscape change over time (e.g. river courses or patterns of settlement) · ge36 I understand latitude and can locate and name the Equator, Northern and Southern hemispheres, the Tropics of Cancer and Capricorn and the Arctic and Antarctic circles

Place knowledge LKS2

• ge38 I can describe the geographical similarities and differences of the physical features of contrasting locations in the UK, Europe and a region of North and South America

MATHEMATICS AND COMPUTING

Number - number and place value LKS2 m80 count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number m81 recognise the place value of each digit in a three-digit number (hundreds, tens, ones) • m82 compare and order numbers up to 1000 **m83** identify, represent and estimate numbers

Number - addition and subtraction LKS2 • m86 add and subtract numbers mentally, including:

m87 a three-digit number and ones

using different representations

- m88 a three-digit number and tens • m89 a three-digit number and hundreds
- · m90 add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction

Number - multiplication and division LK52 m93 recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables

Number - fractions LKS2

m96 count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10

• m97 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators • m100 add and subtract fractions with the same

denominator within one whole [for example, 5/7 + 1/7 = 6/7]

Geometry - properties of shapes LK52

· m110 draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them • m111 recognise angles as a property of shape or a description of a turn

Statistics LKS2

• m114 interpret and present data using bar charts, pictograms and tables

Number - number and place value LK52 m116 count in multiples of 6, 7, 9, 25 and 1000 m117 find 1000 more or less than a given number m118 count backwards through zero to include negative numbers

m119 recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and

· m120 order and compare numbers beyond 1000 · m122 round any number to the nearest 10, 100 or

· m123 solve number and practical problems that involve all of the above and with increasingly large

· m124 read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.

Number - addition and subtraction LKS2 m125 add and subtract numbers with up to 4 digits using the formal written methods of columnar

Number - multiplication and division LKS2 · m128 recall multiplication and division facts for multiplication tables up to 12×12

addition and subtraction where appropriate

• m129 use place value, known and derived facts to multiply and divide mentally, including: multiplying by O and 1; dividing by 1; multiplying together three

Number - fractions (including decimals) LKS2 · m133 recognise and show, using diagrams, families of common equivalent fractions

· m136 add and subtract fractions with the same

· m137 recognise and write decimal equivalents of any number of tenths or hundredths · m138 recognise and write decimal equivalents to

Geometry - properties of shapes LKS2 · m150 identify acute and obtuse angles and compare and order angles up to two right angles by

• m151 identify lines of symmetry in 2-D shapes presented in different orientations

· co15 I can solve problems by breaking them down into progressive steps

· co16 I am aware that programs follow a sequence from one instruction to the next · co23 I understand internal computer networks (intranet) and external networks (internet) and the

opportunities they provide · co24 I can use search technologies effectively · co25 I am aware that information from some sources may not be accurate

Mains or battery? Make your own circuit Draw first circuit diagram Test for conductors and insulators Make a switch and how does it work Famous Electric pioneers - Faraday, Franklin and Edison Music - singing lessons in preparation for SingOut concert by Inspiring Music teacher -10 lessons and final group concert.

D.T - make a model of a room in home with a circuit attached for a light or buzzer with a switch - using a shoebox and other small models of furniture and doors etc with the emphasis on how the circuit works and where the switch is placed.

Decagon maths group will follow the year 4 maths curriculum in all aspects of the subject: Computing - using the Espresso coding lessons for year 3 and 4 Starter units and lesson plans

ging lessons with

Inspiring music

teacher Lindsay

Monteath for 10

weeks across the

Number place value and calculation

Also internet searches for Geography project Internet safety - and finding correct information

Football - 6 weekly lessons with FA coach Mr Maker for year 3 and 4 across the half term - focusing on skills.

Swimming lessons - 10 weeks of half hour lessons

at Tiddenfoot Leisure centre with qualified coaches

- all year 3 and 4 children to attend across the term

finding space, ball control and teamwork

wimming lessons at

local leisure centre

for 10weeks

Space and shape Data handling Measurement

Fractions and decimals

Shocking Electricity and Around the World

BFGs year 3 Literacy group will follow the year 3 English curriculum using the Hamilton Trust units of work including stories by the same author, poems to perform, nonfiction texts and Christmas stories.

Spelling tests every Friday and reading in class as often as possible - regular group reading and individual times Comprehension and grammar work to follow the year 3 plans with extra work on Thursday in supported groups.

Year 3 and 4 to have at least 2 regular French sessions just before lunch every week with an extended vocabulary and oral session once a week for all - including greetings, rhymes, colours, numbers, items in a classroom, family and hobbies etc.

In English the children will perform poems to the group and when possible in assemblies etc. Planning to give year 3 and 4 children a chance to perform a talk to the class on a subject of their choice with items to be shown or a presentation for IWB

Following PHSE curriculum and focusing on friends, teamwork, behaviour (right and wrong), personal safety and health and communication skills

R.E to be planned in for nearer Christmas - comparing religions etc

EXPRESSIVE ARTS AND DESIGN

LKS2

· ad10 I can show in my sketch book how I have developed techniques and ideas · ad12 I can show examples of drawing using pencil and charcoal.

Design LKS2

· dt25 I can talk about my product and explain my design ideas and where they came from

· dt26 I can tell you for whom I have designed my product and why I think my product would be useful to them

· dt27 I can communicate my ideas through annotated sketches

· dt29 I can make a model of my design

Make LKS2 · dt32 I can select and use appropriate tools and techniques for my product

· dt33 I can measure, mark, cut and shape a range of materials accurately

· dt37 I can discuss the aesthetic qualities of my product in relation to the properties of the materials etc I am intending to use

Evaluate LKS2

· dt38 I can talk about existing products similar to · dt39 I can compare my design to those of existing

products and can suggest improvements I could make in the light of those comparisons · dt40 I have asked for the views of others, especially the intended users, to help to improve my design

· mull I can sing in a group, or on my own, with expression, awareness of others and in tune · mu16 I can listen carefully and perform

accurately from memory

LITERACY

Reading - word reading LKS2

· e135 apply their growing knowledge of root words, prefixes and suffixes (etymology and morphology) as listed in English Appendix 1, both to read aloud and to understand the meaning of new words they

· e136 read further exception words, noting the unusual correspondences between spelling and sound, and where these occur in the word.

Reading - comprehension LK52

• e137 develop positive attitudes to reading and understanding of what they read by:

• e139 reading books that are structured in different ways and reading for a range of purposes • e140 using dictionaries to check the meaning of

words that they have read · e141 increasing their familiarity with a wide range of books, including fairy stories, myths and legends, and retelling some of these orally

• e146 understand what they read, in books they can read independently, by: · e147 checking that the text makes sense to them,

discussing their understanding and explaining the

meaning of words in context • e148 asking questions to improve their

understanding of a text · e150 predicting what might happen from details stated and implied

• e152 identifying how language, structure, and presentation contribute to meaning

Writing - transcription - Spelling LKS2

• e155 use further prefixes and suffixes and

understand how to add them (English Appendix 1)

• e159 use the first two or three letters of a word to check its spelling in a dictionary

• e157 spell words that are often misspelt (English

Writing - handwriting LKS2 · e161 use the diagonal and horizontal strokes that

• e156 spell further homophones

are needed to join letters and understand which letters, when adjacent to one another, are best left

· e162 increase the legibility, consistency and quality of their handwriting [for example, by ensuring that the downstrokes of letters are parallel and equidistant; that lines of writing are spaced sufficiently so that the ascenders and descenders of letters do not touch].

Writing - composition LKS2

• e163 plan their writing by:

• e165 discussing and recording ideas • e166 draft and write by:

• e167 composing and rehearsing sentences orally (including dialogue), progressively building a varied and rich vocabulary and an increasing range of sentence structures (English Appendix 2)

• e168 organising paragraphs around a theme • e169 in narratives, creating settings, characters

Writing - vocabulary, grammar and punctuation

• e179 choosing nouns or pronouns appropriately for clarity and cohesion and to avoid repetition

• e180 using conjunctions, adverbs and prepositions to express time and cause

COMMUNICATION AND LANGUAGE

LKS2

• fl1 I can understand what is being said to me and respond correctly

• fl3 I can have a conversation including asking and answering questions

• fl5 I can pronounce words correctly so that I am understood • fl12 I know that some words are governed by

· sl13 listen and respond appropriately to adults and

• sl14 ask relevant questions to extend their understanding and knowledge

• sl16 articulate and justify answers, arguments and

· sl18 maintain attention and participate actively in collaborative conversations, staying on topic and initiating and responding to comments • sl21 participate in discussions, presentations, performances, role play, improvisations and debates

PSED & RELIGIOUS EDUCATION

PSED Preparing to play an active role as citizens

RE - Learning From Religion LKS2 · rf25 Response to the challenges of commitment in

DIJVETCAL ENLICATION

Shocking Electricity and Around the World - Stage Coverage

UNDERSTANDING THE WORLD

Working scientifically LKS2

- sc32 asking relevant questions and using different types of scientific enquiries to answer them sc33 setting up simple practical enquiries, comparative and fair tests
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Electricity LKS2

- sc75 identify common appliances that run on
- sc76 construct a simple series electrical circuit identifying and naming its basic parts, including cells wires, bulbs, switches and buzzers
- sc77 identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery sc78 recognise that a switch opens and closes a circuit and associate this with whether or not a lamp
- sc79 recognise some common conductors and insulators, and associate metals with being good conductors.

Location knowledge LKS2

lights in a simple series circuit

- ge27 locate the world's countries, using maps to focus on Europe (including the location of Russia) ge28 locate the world's countries, using maps to focus North and South America,
- ge30 locate the world's countries, using maps to focus on their environmental regions, key physical and human characteristics
- ge35 name human and physical characteristics and understand how some of these aspects have changed over time
- **ge36** identify the position and significance of longitude, Equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle

Place knowledge LKS2

• ge38 understand geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom, a region in a European country, and a region within North or South America

Number - number and place value LKS2 m80 count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number m81 recognise the place value of each digit in a

- three-digit number (hundreds, tens, ones) m82 compare and order numbers up to 1000 m83 identify, represent and estimate numbers using
- Number addition and subtraction LKS2
- m86 add and subtract numbers mentally, including:
- m87 a three-digit number and ones
- m88 a three-digit number and tens

different representations

- m89 a three-digit number and hundreds
- m90 add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
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- m97 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
- m100 add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7

Geometry - properties of shapes LKS2

- m110 draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them
- m111 recognise angles as a property of shape or a description of a turn

Statistics LKS2

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- m120 order and compare numbers beyond 1000 • m122 round any number to the nearest 10, 100 or
- m123 solve number and practical problems that
- involve all of the above and with increasingly large positive numbers • m124 read Roman numerals to 100 (I to C) and
- know that over time, the numeral system changed to include the concept of zero and place value.

Number - addition and subtraction LKS2

- m125 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
- Number multiplication and division LKS2 m128 recall multiplication and division facts for multiplication tables up to 12 × 12
- m129 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers

Number - fractions (including decimals) LKS2

- m133 recognise and show, using diagrams, families of common equivalent fractions m136 add and subtract fractions with the same
- m137 recognise and write decimal equivalents of
- any number of tenths or hundredths m138 recognise and write decimal equivalents to
- 1/4, 1/2, 3/4

Geometry - properties of shapes LKS2

MATHEMATICS AND COMPUTING

LKS2

pe4.1 use running, jumping, throwing and catching in combination

PHYSICAL EDUCATION

- **pe5** play competitive games, modified where appropriate
- pe5.1 play competitive games and apply basic principles suitable for attacking and defending

Swimming and water safety LKS2

- · pe10 swim competently, confidently and proficiently over a distance of at least 25 metres
- pe10.1 use a range of strokes effectively such as front crawl, backstroke and breaststroke

LKS2

 ad10 to create sketch books to record their observations and use them to review and revisit ideas

EXPRESSIVE ARTS AND DESIGN

ad12 to improve their mastery of art and design techniques, including drawing with pencil and charcoal

Design LKS2

- dt25 use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose
- dt26 use research and develop design criteria to design products that are fit for purpose, aimed at particular individuals or groups
- dt27 generate, develop, model and communicate their ideas through discussion and annotated
- dt29 generate, develop, model and communicate their ideas through prototypes

Make LKS2

- dt32 select from and use a wider range of tools and equipment to perform practical tasks
- dt33 use a wider range of tools and equipment to perform practical tasks accurately
- dt37 select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their aesthetic qualities

Evaluate LKS2

- dt38 investigate a range of existing products
- dt39 analyse a range of existing products
- dt40 evaluate their ideas and products against their own design criteria and consider the views of others to improve their work

- mu11 perform in solo and ensemble contexts, using their voices with increasing accuracy, fluency, control and expression
- mu16 listen with attention to detail and recall sounds with increasing aural memory

Reading - word reading LKS2

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LITERACY

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- retelling some of these orally • e146 understand what they read, in books they can
- read independently, by: e147 checking that the text makes sense to them, discussing their understanding and explaining the
- e148 asking questions to improve their

meaning of words in context

understanding of a text

- e150 predicting what might happen from details stated and implied
- e152 identifying how language, structure, and presentation contribute to meaning

Writing - transcription - Spelling LKS2

- e155 use further prefixes and suffixes and
- understand how to add them (English Appendix 1)
- e156 spell further homophones
- e157 spell words that are often misspelt (English Appendix 1)
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Writing - handwriting LKS2

- e161 use the diagonal and horizontal strokes that are needed to join letters and understand which letters, when adjacent to one another, are best left
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- e169 in narratives, creating settings, characters and

Writing - vocabulary, grammar and punctuation • e179 choosing nouns or pronouns appropriately for

clarity and cohesion and to avoid repetition e180 using conjunctions, adverbs and prepositions to express time and cause

COMMUNICATION AND LANGUAGE

- fl1 listen attentively to spoken language and show understanding by joining in and responding
- fl3 engage in conversations; ask and answer
- fl5 develop accurate pronunciation and intonation so that others understand when they are reading
- aloud or using familiar words and phrases • fl12 understand basic grammar appropriate to the language being studied, including (where relevant)
- feminine, masculine and neuter forms sl13 listen and respond appropriately to adults and their peers
- sl14 ask relevant questions to extend their understanding and knowledge
- sl16 articulate and justify answers, arguments and
- sl18 maintain attention and participate actively in collaborative conversations, staying on topic and initiating and responding to comments

• sl21 participate in discussions, presentations,

performances, role play, improvisations and debates rf27 Discuss their own and others' religious beliefs, includig worship.

PSED Preparing to play an active role as citizens

pa25 Continue to value contributions of others in

PSED & RELIGIOUS EDUCATION

- discussion. • pa29 Understand there are consequences when
- rules are broken. • pa30 Distinguish between accidental and deliberate actions.
- PSED Developing a healthy, safer lifestyle LKS2 ph15 Behave safely and responsibly in different
- ph16 Follow school rules about health and safety, basic emergency aid procedures and where to get
- ph17 Extend strategies to cope with risky situations. ph18 To increase awareness of personal bodily hygiene.

RE - Learning From Religion LKS2

- rf25 Response to the challenges of commitment in their own views and in religious traditions.
- rf28 Reflect on ideas of right and wrong and others' response to them.

Learning About Religion LKS2

- ra26 Describe aspects of religion, especially the people, stories and traditions that influence the beliefs and values of others.
- ra27 Describe the variety of practices and ways of
- ra28 Identify and describe the similarities in religions.

