**Medium Term Plan: How Has Electricity Changed the World?
ALhAhhh**

**Year Group: 4 Term: Spring 1**

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| **Weeks** | **03.01.22** | **10.01.22** | **17.01.22** | **24.01.22** | **31.01.22** | **07.02.22** | **14.02.22** |
| **Trips Visitors Special Events** | **07.01** Y4 Fizz Pop ScienceWorkshops in hall |  | **21.01**Ottery STEM Day 2 | **28.01**Fowey STEM Day 2 | **04.02**Tamar STEM Day 2 | **09.02**Safer Internet Day (pm only) **11.02**Y4 SMSC Day 2 | **18.02** Aspirations Day |
| **Maths** | **Number: Multiplication and Division***RN*  | **Number: Multiplication and Division***ET* | **Number: Multiplication and Division***DT* | **Number: Multiplication and Division***RN* | **Measurement: Area***DT* | **Number: Fractions***ET* | **Number: Fractions***DT* |
| **Maths End Points** | * 11 and 12- times table
* Multiply 3 numbers
* Factor pairs
* Efficient multiplication
* Written methods
* Multiply 2-digit by 1-digit
* Multiply 3-digit by 1-digit
* Divide 2-digits by 1-digit
* Divide 3-digit by 1-digit
* Correspondence problems
 | * What is area?
* Counting squares
* Making shapes
* Comparing area
 | * What is a fraction?
* Equivalent fractions
* Fractions greater than 1
* Count in fractions
* Add 2 or more fractions
* Subtract 2 fractions
* Subtract from whole amounts
* Calculate fractions of a quantity
* Problem solving – calculate quantities
 |
| **Mathematical Fluency** | **Times Table Rockstars**9s | **Times Table Rockstars**9s | **Times Table Rockstars**3s & 9s | **Times Table Rockstars**6s & 9s | **Times Table Rockstars**7s | **Times Table Rockstars**7s | **Times Table Rockstars**7s |
| **Maths Fluency End Points** | * to recall a range of multiplication facts for the 3- , 6-, 7- and 9- times table
* to recall a range of division facts for the 3- , 6-, 7- and 9- times table
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| **Writing** | **TFW – Biographies** See the source imageImitate Week*DT* | **TFW – Biographies** See the source imageImitate Week*DT* | **TFW – Biographies** See the source imageInnovate Week*ET* | **TFW – Biographies** See the source imageInvent Week*ET* | **TFW – Biographies** See the source imageInvent Week*ET* | **Poetry & Oracy Skills**See the source imageWeek 1*DT* | **Poetry & Oracy Skills**See the source imageWeek 2*DT* |
| **Writing End Points** | **TFW – Biographies:**Toolkit tbc | **Poetry & Oracy:**Toolkit tbc |
| **Reading Skills** | **Vocabulary Week of Science terms**Electricity*RN* | **Weeks 2 – 6****Rotation of texts:**Why Does Lightning flash? (Bug Club Text)Chasm of the Killer Bees (Bug Club Text)Research using laptopsThomas EdisonAlexander Graham Bell*RN* | **Reflection Week**TBC |
| **Reading SkillsEnd Points** | **History of Electricity week:*** Focus on: Vocabulary and Retrieval

**Thomas Edison week:*** Focus on: Vocabulary, Retrieval and Summarise

**Alexander Graham Bell week:*** Focus on: Retrieval, Infer and Summarise

**Bug Club Text weeks:*** Focus on: Predict, Vocabulary, Explain, Retrieve, Summarise

**Research using laptops week:*** Focus on: Retrieval and Infer
 |
| **Spellings** | Year 4 Spelling Words*RN* | Homophones / Near Homophones 1*RN* | Homophones / Near Homophones 2*RN* | Prefix sub & super*RN* | Prefix mis & dis*RN* | Words ending ture / sure*RN* | Reflection Week*RN* |
| **Spelling End Points** | * To identify and say words that are homophones/near homophones and words that contain prefixes and suffixes
* To become more confident with spelling words that are homophones/near homophones and words that contain prefixes and suffixes
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| **Science + Investigation x1** | 1. Electrical Fun!

*ET*2) Understanding electrical safety*ET* | 3) Building a circuit*ET*4) Good conductor, bad conductor?*(Investigation)* *ET* | 5) Showing what you know! *ET*6) It’s electric! *ET* |  |  |  |  |
| **Science End Points** | **Working Scientifically*** Ask relevant questions and using different types of scientific enquiries to answer them
* Set up simple practical enquires, comparative and fair tests
* Gather, record, classify and present data in a variety of ways to help answer questions
* Record findings using simple scientific language, drawings, labelled diagrams, keys bar charts and tables
* Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
* Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
* Use straightforward scientific evidence to answer questions or to support their findings.

**Electricity*** A simple circuit can involve cells, wires, bulbs, switches and buzzers.
* A simple circuit needs a complete loop with a battery.
* A switch opens and closes a circuit.
* A conductor is a material that allows electricity to pass through it.
* An insulator is a material that does not allow electricity to pass through it.
 |
| **Topic** | **Geography**Laptops*ET* | **Geography**Laptops*ET***Music**Glockenspiels – lesson 1*DT* | **Geography**Laptops*ET***Music**Glockenspiels – lesson 2*DT* | **DT** 1) Investigate Toy Cars*DT***DT** 2) Plan a toy car*(link to Maths)**&*Make a toy car- all TAs required for saws*DT***DT**3) Decorate the net**Music**Glockenspiels – lesson 3 | **DT** 4) Make a toy car - electrical circuit5) Finish the car + race them. *Maths link***DT** 6) Evaluation**Music**Glockenspiels – lesson 4 | **DT** Persuasive advert script writing**(SHOWSTOPPER)** | **Topic Showstopper****Computing-**Basic Skills + typing tasks week unit |
| **Topic End Points****(KIRFs)** | * A simple circuit can involve cells, wires, bulbs, switches and buzzers.
* A simple circuit needs a complete loop with a battery.
* A switch opens and closes a circuit.
* A conductor is a material that allows electricity to pass through it.
* An insulator is a material that does not allow electricity to pass through it.
 |
| **Topic Writing****2x cross curriculum writes** **1x science investigation** |  | Science Investigation: conductors | Geography long write |  |  | DT long write(Toy Car Advert) |  |
| **Topic Writing End Points** | **Science Investigation Write Up*** Comparison and fair testing skills
* Prediction skills
* Results
* Conclusion (linked back to prediction)

**Geography Write Up*** Headings and subheadings
* Paragraphs
* Punctuation
* Co-ordinating conjunctions
* Subordinating conjunctions

**DT Write Up (Toy Car Advert)*** Set the scene
* Names of characters down left-hand side
* Written character dialogue
* Stage directions
* New line = new speaker
* Adverbs in stage directions
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| **PE** | **Gymnastics**Symmetrical shapes and balances.**Tag Rugby**Throw a rugby ball with accuracy. | **Gymnastics**Symmetrical jumps and rolls.**Tag Rugby**Pass the ball backwards in a line of players. | **Gymnastics**Asymmetrical shapes, movements and balances.**Tag Rugby**Select the best ways to attack and defend. | **Gymnastics**Asymmetrical jumps and rolls.**Tag Rugby**Select the best ways to defend. | **Gymnastics**Create a sequence.**Tag Rugby**Select the best ways to attack and defend. | **Gymnastics**Evaluate a sequence.**Tag Rugby**Select the best ways to attack and defend. | *Reflection Week* |
| **PE End Points** | **Gymnastics*** Symmetrical shapes and balances.

**Tag Rugby*** Throw a rugby ball with accuracy.
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| **RSHE** | Piece 3: Dreams and GoalsLesson 1*DT* | Piece 3: Dreams and GoalsLesson 2*DT* | Piece 3: Dreams and GoalsLesson 3*DT* | Piece 3: Dreams and GoalsLesson 4*DT* | Piece 3: Dreams and GoalsLesson 5*DT* | SMSC Day | Aspirations Day |
| **RE** | **Islam** | **Islam** | **Islam** | **Islam** | **Islam** | **Islam** | **Islam** |
| **RE End Points****(KIRFs)** | * Understand and respect the main principles of the religion Islam
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| **French** | **Weather** | **Weather** | **Weather** | **Weather** | **Weather** | **Weather** | **Weather** |
| **French End Points** | * Learn and use French terms to describe the weather
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| **DT** | **ET** | **RN** | **JM** |
| Maths rotationEnglish – imitate weeksDTRSHEMusic | Maths rotationEnglish – innovate & invent weekScienceGeography | Maths rotationReading Skills RotationSpellings | Maths rotationIntervention Group |