**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 Science  Workshops 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 | | | | | | |
| **Writing** | **TFW – Biographies**  See the source image  Imitate Week  *DT* | **TFW – Biographies**  See the source image  Imitate Week  *DT* | **TFW – Biographies**  See the source image  Innovate Week  *ET* | **TFW – Biographies**  See the source image  Invent Week  *ET* | **TFW – Biographies**  See the source image  Invent Week  *ET* | **Poetry & Oracy Skills** See the source image  Week 1  *DT* | **Poetry & Oracy Skills** See the source image  Week 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 laptops  Thomas Edison  Alexander Graham Bell  *RN* | | | | | **Reflection Week**  TBC |
| **Reading Skills End 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 | | | | | | |
| **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 circuit  5)  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 | | | | | | |
| **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. | | | | | | |
| **RSHE** | Piece 3: Dreams and Goals    Lesson 1  *DT* | Piece 3: Dreams and Goals    Lesson 2  *DT* | Piece 3: Dreams and Goals  Lesson 3  *DT* | Piece 3: Dreams and Goals    Lesson 4  *DT* | Piece 3: Dreams and Goals  Lesson 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 | | | | | | |
| **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 rotation  English – imitate weeks  DT  RSHE  Music | Maths rotation  English – innovate & invent week  Science  Geography | Maths rotation  Reading Skills Rotation  Spellings | Maths rotation  Intervention Group |