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| **Y5 and Y6 Homework Grid: Lighting It Up (Light and Electricity)****Please choose one activity a week and record which activity has been completed by adding the date into the box provided. Please add comments, should you wish to, regarding your child’s engagement/enjoyment/understanding of each activity. Please choose at least two from each column during each half term.** |
| **English** |  | **Maths** |  | **Topic/Creative** |  |
| ***Writing for pleasure:***At home, pretend you are living in a century when electricity has not yet been invented. What is it like? Was life more difficult or simpler before electricity was discovered? **Record your experience by writing a diary entry.****Y5:** Think about using descriptive vocabulary and various synonyms.**Y6:** Can you apply all the punctuation you know in the diary entry? | Date:Comments: | **Measure:**Cut two pieces of string/ribbon so each one is 1m long. Use these to work out the rough **perimeter** and **area** of your garden or the rooms in your home in metres.Can you draw a **floor plan** of your house or garden showing your measurements? You will need to scale down the measurements on your plan.  | Date:Comments: | What are the benefits of saving electricity?In what ways can we save electricity?Create a **persuasive poster** that will persuadeothers to **save electricity**.**Y6:** Can you use a triple, hyperbole, emotive language or alliteration?  | Date:Comments: |
| ***Enjoying your reading?*** Research the history of electricity. Who discovered electricity? How was it discovered? When was it discovered? What is electricity? How does it affect your life?**Make an information sheet to summarise your findings.****Y5:** Think about organisational features such as bullet points, subheadings, paragraphs, captions, etc.**Y6:** Think about the purpose and reader of your information text. Have you used the correct tone? | Date:Comments: | **Puzzle:**Can you put the numbers 1 to 8 in each of the squares so that each side adds up to the middle number?Can you create your own puzzle like this? | Date:Comments: | **Science:**Can you create or **design** a mini-**circuit**?What do you need? What will your **energy output** be sound/light/movement? How will it be connected? Will the materials be **insulators** or **conductors**? What will your **electricity source** be (battery)?How could you investigate how to make the bulb brighter or the sound louder or the movement quicker? What would you do?What would you need?How would you make it a fair test?**Y6:** Which factors will be **controlled** and what will the **variables** be? | Date:Comments: |
| ***Writing for pleasure:***Write a **poem** about the many ways you use electricity. Maybe you watch TV or play video games, help with the laundry or do the vacuuming. OR Make **rhyming riddles** for different electrical appliances and machines in your home.**Y5:** Can you use a simile and a metaphor?**Y6:** Can you use lots of figurative language? | Date:Comments: | **Investigate factors in the times tables to 12x12.**Can you rank the top 5 factors which appear the most? What is special about them that makes them appear so often?Which factors appear the least? Can you explain why?**Y6:** Explore, define and give examples of ***factors, multiples, prime numbers, factor pairs, prime factor pairs***and ***composite numbers*** to help you revise the mathematical vocabulary.  | Date:Comments: | Make a clock that doesn’t need electricity by creating a **sundial**.Paper plates and sticks are a great place to start, but you can be more creative if you wish!Can you label your clocks with **Roman Numerals**?**Y6:** Use this activity to revise the Roman Numerals! | Date:Comments: |
| ***Spelling Practice:*** Make a list of words with these prefixes and suffixes and then explain how the meaning of the word changes when you add one of these prefixes or suffixes.**Prefixes:** anti, bi, tri, co, re, auto, im, il, ir, in, sub, inter, super, etc.**Suffixes:** ment, ful, ness, sure/ture, ous, cian/tion/sion, ation, less, etc.  | Date:Comments: | **Statistics:**Look at the electrical appliances in your home.Which ones create sound only, light only, sound and light, movement, temperature changes, anything else?Consider the most **visual** way to **represent** your findings. | Date:Comments: | **Invent** a simple tool that is driven by wind power.Can you design it, plan the make of it and then evaluate its usefulness? | Date:Comments: |