

Homework Grid – Autumn 2 Choose 4 of the following tasks to complete by the end of the autumn term

<p>Science</p> <p>Design and draw a simple torch circuit.</p> <p>Part 1: Draw Your Circuit</p> <p>Draw a circuit diagram showing how to make a simple torch. Include and label these components: battery (power supply), bulb (lightbulb), switch and wires connecting everything.</p> <p>Part 2: Explain How It Works</p> <ol style="list-style-type: none"> 1. What does the battery do in your circuit? 2. Why do we need a complete circuit for the bulb to light up? 3. What happens when you open the switch? Why? 4. Would your torch work if you used a plastic ruler instead of wire? Explain why or why not. <p>Part 3: Conductor or Insulator?</p> <p>Pretend that you're going to test objects to see if they would work in your torch circuit. Make a table with three columns: object name, conductor or insulator, do you think it'll work? Consider these 5 objects: a metal spoon, a wooden pencil, a plastic ruler, a coin, a rubber and anything else.</p> <p>Challenge (optional): Can you think of a way to make your torch brighter? Draw a new circuit diagram showing your idea.</p>	<p>English</p> <p>Write instructions for your favourite thing to do. This could be related to Christmas or an idea of your own.</p> <p>Here are a few suggestions: -</p> <ol style="list-style-type: none"> 1. How to make a Christmas decoration (snow flake, paper chain) 2. How to wrap the perfect Christmas present 3. How to make a Christmas card 4. How to make your favourite breakfast 5. How to make a delicious sandwich <p>Remember to include:</p> <ul style="list-style-type: none"> -A clear title -List of equipment, ingredients or materials needed -A rhetorical question in the introduction -Imperative verbs (mix, fold, cut etc) -More than one sentence for some steps -Subordinating conjunctions (if, since, when, as, although, while, after, before, until, because) -Adverbs (slowly, carefully) -Time connectives (first, next, after that, finally) -A closing statement 	<p>History</p> <p>Pick ONE of these everyday activities: playing/leisure time, meal times, being at school, a family gathering or bedtime.</p> <p>Research: Find out what your chosen activity looked like for children in either Tudor times OR Victorian times. Think about: what clothes children wore, what objects or tools they used, where the activity took place (inside/outside, what the room/space looked like), who else might have been there and the colours and atmosphere.</p> <p>Create TWO pieces of art showing the same scene:</p> <p>Artwork 1: The Past</p> <p>Artwork 2: The Present</p> <p>Label and Explain: pointing to important details that show the differences between then and now.</p> <p>For example: 'Oil lamp' (Victorian) vs 'Electric light' (Today), 'Wooden toys' vs 'Electronic games', 'Simple bread and cheese' vs 'Variety of foods'.</p>
<p>R.E</p> <p>Design a Christmas bauble that incorporates symbols to represent the meaning of Christmas in the Christian faith.</p> <p>Here are a few examples of symbols that were in the nativity story:-</p> <ul style="list-style-type: none"> • Star - The Star of Bethlehem that guided the Wise Men • Angels - Who announced Jesus's birth to the shepherds • Shepherds and sheep - The first visitors to baby Jesus • Manger/stable - Where Jesus was born • Crown - Representing Jesus as King • Gifts - Gold, frankincense and myrrh from the Wise Men <p>You can use any of these symbols to inspire you, or you could choose one of your own.</p>	<p>Maths</p> <p>Design your dream bedroom on squared paper (I'm happy to give this to you), where each square represents 1 square metre of floor space.</p> <p>Part 1: Planning</p> <ul style="list-style-type: none"> • Draw a rectangular bedroom • Label the length and width in metres • Calculate the total area by counting squares <p>Part 2: Furniture Design</p> <ul style="list-style-type: none"> • Draw and cut out furniture items on separate squared paper: <ul style="list-style-type: none"> ○ Bed (e.g., 2m × 1m = 2 square metres) ○ Desk (e.g., 1m × 1m = 1 square metre) ○ Wardrobe (e.g., 2m × 1m = 2 square metres) ○ Bookshelf (e.g., 1m × 1m = 1 square metre) • Calculate the area of each piece of furniture by counting squares • Arrange furniture in the bedroom (stick or draw them in) 	<p>Art</p> <p>A still life is an artwork showing objects that don't move, like fruit, flowers, bottles, books, or toys. Famous artists like Paul Cézanne and Vincent van Gogh painted still life scenes. Now it's time to create your own!</p> <p>Choose a theme for your still life:</p> <ul style="list-style-type: none"> • Fruit bowl • Flowers in a vase • Toys on a shelf • Books and a cup • Kitchen items • Your own idea! <p>Arrange your items ready for you to sketch. Once your arrangement has been drawn in pencil, use water colours to paint your still life picture. Don't forget to paint with care and control and to use colour to show light and dark, which would help to create a 3D effect.</p>