

### Design and Technology Intent, Implementation and Impact.

#### **Expected Impact from following Kapow scheme of work**

The impact of our Kapow scheme will be constantly monitored through both formative and summative assessment opportunities. Each lesson includes guidance to support teachers in assessing pupils against the learning objectives. Furthermore, each unit has a unit quiz (KS2 only) and a knowledge catcher (KS1&2), which can be used at the start and end of a unit. KS1 will adapt the end of unit quiz to make it accessible for younger learners. Pupils should leave school equipped with a range of skills to enable them to succeed in their secondary education and be innovative and resourceful members of society.

Intent	Implementation	Impact
<ul style="list-style-type: none"> <li>➤ We aim to give children the opportunity to develop skills, knowledge and understanding of designing and making functional products.</li> <li>➤ It is vital to us to nurture creativity and innovation through design, and by exploring the designed and made world in which we all live and work.</li> <li>➤ We will follow the Kapow Design and Technology scheme of work to inspire pupils to be innovative and creative thinkers who have an appreciation for the product design cycle through ideation, creation and evaluation.</li> <li>➤ We intend for our pupils to develop the confidence to take risks, through drafting design concepts, modelling and testing and to be reflective learners who evaluate their work and the work of others.</li> <li>➤ We aim to build an awareness of the impact of design and technology on our lives and encourage our children to become resourceful, enterprising citizens who will have skills to contribute to future design advancements.</li> <li>➤ We will enable our children to meet the end of key stage attainment targets in the national</li> </ul>	<ul style="list-style-type: none"> <li>➤ Subject leader and teaching staff will implement the new scheme of work, Kapow, to ensure we have are delivering a progressive and effective curriculum.</li> <li>➤ Deliver and evidence clear progression of skills and knowledge within the five key strands across year groups: design, make, evaluate, technical knowledge and cooking and nutrition, by using Kapow's design and technology progression documents.</li> <li>➤ Implement a 'Spiral Curriculum' which revisits the key strands again and again with increasing depth.</li> <li>➤ Lessons are engaging by incorporate a range of teaching strategies from independent tasks, paired and group work including practical hands-on, computer based and inventive tasks.</li> <li>➤ Teachers use adaptive teaching appropriately and evidence of challenge will be seen in journals, as suggested in the Kapow planning.</li> <li>➤ Teachers will use tools like knowledge organisers available in each Kapow unit to support pupils in building a foundation of factual knowledge.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Understand the functional and aesthetic properties of a range of materials and resources.</li> <li>➤ Understand how to use and combine tools to carry out different purposes for shaping, decorating and manufacturing products.</li> <li>➤ Build and apply a repertoire of skills, knowledge and understanding to produce high quality, innovative outcomes, including models, prototypes, CAD, and products to fulfill the needs of users, clients and scenarios.</li> <li>➤ Understand and apply principles of healthy eating, diets and recipes, including key processes, food groups and cooking equipment.</li> <li>➤ Have an appreciation for key individuals, inventions and events in history and of today that impact our world.</li> <li>➤ Recognise where our decisions can impact the wider world in terms of community, social and environmental issues.</li> <li>➤ Self-evaluate and reflect on learning at different stages and identify areas to improve.</li> <li>➤ Meet the end of key stage expectations outlined in</li> </ul>

<p>curriculum by following the Kapow scheme of work.</p> <ul style="list-style-type: none"> <li>➤ We will continue to work towards an Artsmark accreditation with the new scheme of work, as Kapow Primary is an Artsmark partner and this will give our school additional support on our Artmark journey, inspiring our children to create, experience and participate in great arts and culture.</li> <li>➤ Pupils will produce work that explores materials and components, mechanisms and control systems, structures, existing products, quality and health and safety.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Teachers will also use assessment tools like knowledge catchers and unit quizzes to assess current knowledge and progress.</li> <li>➤ We will develop strong subject knowledge to deliver a highly effective and robust curriculum. Staff will make use of CPD videos in the unit planning available with Kapow scheme of work.</li> <li>➤ Design and technology will be implemented as a block of lessons during one week of each term (assessment week).</li> <li>➤ Subject leader will raise the profile of design and technology by working with other subject leaders within the trust to deliver enrichment opportunities.</li> <li>➤ Children will develop their ideas, reflections, skills and record their journey in a design and technology journal.</li> <li>➤ Through effective planning using the Kapow scheme of work, teachers will ensure adequate coverage in all strands of design and technology.</li> <li>➤ Teachers will teach and model topic specific vocabulary and give children opportunities to use and apply this vocabulary.</li> </ul>	<p>the National Curriculum for design and technology.</p>
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