One page overview for music

Intent

At Rockcliffe CE school we aim to cultivate a passion for design and technology, empowering students to become innovative thinkers and problem solvers. We aim to foster creativity, wisdom, and strength in our students, aligning with our school values and our tagline of "Growing Wise Builders." Our goal is to provide a comprehensive and engaging curriculum that prepares students for future STEM opportunities and promotes healthy living. Students will gain an understanding of materials, tools, and techniques used in design and technology. They will develop practical skills through hands-on projects, including the use of the Kapow scheme for consistent teaching. The curriculum will encourage the application of design processes to create functional products that meet specific needs, alongside knowledge of healthy eating principles through our partnership with Phunky Foods, promoting nutritional awareness. In the Early Years Foundation Stage (EYFS), students will explore design concepts through continuous provision, meeting early learning goals. Key Stage 1 will introduce basic design principles, materials, and tools, with simple project-based learning. In Key Stage 2, projects will increase in complexity with the additional units based on CAD and CAM skills. The curriculum is designed to be ambitious for all students, including those with SEND and disadvantaged backgrounds, ensuring equitable access to learning opportunities. Adaptations and support strategies will be implemented to maintain high expectations while catering to diverse learning needs. We will ensure consistent implementation of the Kapow scheme to maintain high-quality teaching and learning in design and technology. Integration of STEM projects, such as the F1 club, will inspire students and enhance problem-solving skills. Regular assessments will be conducted to monitor progress and inform teaching, ensuring coverage of all areas across a two-year cycle. Additionally, exploration of design and technology in EYFS through continuous provision will foster early creativity and innovation.

Implementation

Using the Kapow scheme of work we will employ project-based learning that encourages collaboration and real-world problem-solving. Hands-on activities will promote engagement and practical skill development, while the use of technology and digital tools will enhance the design process and product creation. A structured two-year cycle will cover all aspects of the design and technology curriculum, ensuring comprehensive learning experiences. In KS1 these are mechanisms, structure, textiles and cook. In KS2 the children also access electrical systems and digital world which teaches key CAD and CAM skills. We will integrate cross-curricular links, particularly with STEM subjects and healthy eating initiatives. Regular formative assessments will track student progress and inform instructional adjustments. Summative assessments will be conducted at the end of units to evaluate understanding and application of skills. Students will have access to high-quality resources, including tools, materials, and digital technologies that support effective teaching and learning. Ongoing professional development opportunities will be provided for staff to enhance their subject knowledge and pedagogical skills in design and technology. Adaptation strategies will include tailored tasks and support materials to meet the needs of all learners. Opportunities for peer collaboration and mentoring will foster a supportive learning environment.

Impact

We will evaluate student understanding through practical assessments, project presentations, and reflective journals. Termly pupil and staff voice enables the design and technology to develop and adapt in line with the specific needs within our school setting. Monitoring of skill progression will occur through a portfolio of completed projects. Analysis of assessment data will identify trends in student performance and areas for improvement. Assessment outcomes will inform curriculum adjustments and enhance teaching practices. Increased student engagement and enthusiasm for design and technology will be evidenced through participation in extracurricular activities like the F1 and cooking club. Positive feedback from parents and the community will reflect students' practical skills and knowledge of healthy eating. Regular reviews of curriculum implementation and assessment practices will ensure alignment with Ofsted expectations. Feedback mechanisms for students and staff will facilitate continuous improvement of the design and technology curriculum.