

# Newquay Primary Academy



## Design & Technology Policy

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## The Intent, Implementation and Impact of our Curriculum – Design and Technology.

### Intent

At Newquay Primary Academy, we teach design and technology through our high quality thematic curriculum using objectives taken from the National Curriculum, ensuring all children access all areas of the subject. These include cooking and nutrition, textiles and resistant materials. To achieve our aims, we ensure that the planned activities our children undertake through Kapow are inspiring, inclusive, challenging and enjoyable. We provide opportunities for all the children to design and make quality products using a range of materials and processes. The children at NPA are provided with the very best resources possible, while constantly reviewing this provision in the light of curriculum changes, development and budget constraints. Our future vision for design and technology, is to create a separate workshop and food technology space which will provide children the opportunity to work with a much broader range of materials, processes and technologies: furthering their experiences and aspirations.

### Implementation

At Newquay Primary Academy, we believe in cognitive load theory and work towards implementing these strategies to help children learn, so that they can retain valuable skills and knowledge. In design and technology, learning happens through schema extension and connection. This means that work is taught in 'chunks' during separate parts of the year. These 'chunks', or blocked projects, often teach skills which are connected, and children are able to knit together and build on previous knowledge. At Newquay Primary Academy, we also ensure that each project follows the design process. To begin, the children identify a problem that requires solving. Then, through research and problem solving, children generate ideas to solve this problem. Once a successful design has been achieved, the children at NPA work with materials and processes to manufacture their product or model. At NPA, our medium-term plans, which we have adopted from the National Curriculum and Kapow, give details of each unit of work for each term. They identify learning objectives and outcomes for each unit, and ensure an appropriate balance and distribution of work across each term.

### Impact

- Children will be equipped with appropriate skills and knowledge that will enable them to be ready for the curriculum at Key Stage 3 and be prepared to participate in tomorrow's rapidly changing technologies.
- Children at NPA will have developed a love for design and technology and will look forward to taking their next steps in their learning.
- Children will have learnt a variety of essential and technical practical skills which will serve them well in the future.
- Children will have experienced working with a wide range of materials, understanding their working properties.
- Children will have adopted Inquisitive and problem-solving minds, which will allow them to tackle lives challenges.
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### Assessment

Pupils' knowledge will be tested at the beginning of each session with a Flashback Four activity. At the end of the unit, pupils will have the opportunity to challenge themselves in a quiz by choosing the questions they answer, which will be based on their current learning, their learning from the previous

term or their learning from the previous year with points varying in accordance to level of difficulty. This will help inform teachers' future planning of D&T lessons.

#### Equal opportunities and SEND

We aim to give every pupil the opportunity to enjoy all strands of design and technology. All pupils will have an equal opportunity to reach their full potential across the D&T curriculum regardless of their race, gender, cultural background or special needs. Staff will create a safe working environment for every child and supports the appreciation of other cultures and diversity. See 'NPA strategies for supporting pupils with SEND in D&T' to see how Newquay Primary Academy supports SEND pupils in D&T lessons.