



DT at Boxgrove



Statement of Intent

DT offers children the chance to use critical thinking and creativity with a defined purpose and a tangible outcome. Through a variety of creative and practical activities, pupils are taught the knowledge, understanding and skills needed to engage in a process of designing and making. They work in a range of contexts through our topic-based approach which allows for cross-curricular links to be made.

Children will:

- develop the creative, technical and practical expertise needed to perform everyday tasks confidently and participate successfully in an increasingly technological world
- build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users
- critique, evaluate and test their ideas and products and the work of others
- understand and apply the principles of nutrition and learn how to cook



BIG IDEAS

Children realise that DT incorporates a range of skills using a variety of materials.

Children at Boxgrove are provided with opportunities to use DT to express themselves.

Children recognise that DT is not just a creative process but also a practical one. It is all around us and an important component in everyday life.

Children in EYFS have access to clearly-labelled construction materials at all times. This includes: lego, blocks, outdoor tyres, scissors, glue etc.



CONTENT & SEQUENCING

Throughout their DT journey children should:

- Master practical techniques
This concept involves developing the skills needed to make high-quality products.
- Take inspiration from design
This concept involves appreciating the design process that has influenced the products we use in everyday life.
- Design, make, evaluate and improve
This concept involves developing the process of design thinking and seeing design as an iterative process

Concepts should be enhanced by the following knowledge categories:



Technical knowledge



Practical knowledge



Design inspiration



Design process

Across the school the breadth of experience includes:

- Food
- Textiles
- Mechanics
- Materials
- Construction
- Electricals and Electronics



LINKS WITH ENGLISH & MATHS

MATHS

- Number
- Weight and measure (using scales, using rulers, estimating)
- Fractions and proportion
- Shape and space
- Geometry (angles)

ENGLISH

- Imperatives
- Instructional texts
- Explanations
- Writing an evaluation (discursive)
- Advertising (persuasive)



RETRIEVAL PRACTICE

Recalling skills used for previous creations.

Retrieval happens throughout the DT process as children: think, make, break, repeat.



PROGRESS

Through the milestones progress is measured through the increasing complexity of skills and knowledge required to complete a task.



SUPPORT

Practical support handling materials and equipment for younger children.

Develop fine motor skills.

Lots of opportunities to 'have a go'/test/trial equipment. This is known as 'finger fluency'

Safety: modelling is vital especially when equipment such as saws or hot ovens are being used.

Moderate/adapt equipment for those with physical needs.