- Lifting devices
- Space buggy/woven structures

Form 1

Key skills include:

- Develop problemsolving skills including the ability to plan and to make.
- Work independently and in groups, taking increased responsibility for their own work.
- Use a hammer and nails safely
- I

- Measure, mark out, cut and spe a range of materials, and assemble, join and combine components
 and materials accuratelyse finishing techniques to strengthen and improve the appearance of their
 product.
- Reflect on the progress of their work as they design and make, identifying twaysould improve
 their products carry out appropriate tests before making any improvements recognise that the quality
 of a product depends on how well it is made and how well it meets its intended purpose.
- Understandhow the working characteristics of materials affect the ways they are used and how materials can be combined and mixed to create more useful properties.

These skills are developed in a wirdege of contexts in each year:

Form 3

- An motor drivenbuggy
- A ball maze
- Electronic Matching Game

Form 4

- Fairground rides
- Electronic Textiles making a soft toy with internal circuitry
- Cams and Cranksmechanical engineering
- Prototyping and team problem solving through practical challenges

Form 5

- Technical Drawing
- LEDwith pressure switches
- Basic carpentry and joinery throughaking an jewelry box
- Desk lamp project.

Form 6

- Toothbrush/penholders
- Design Enterprise organizing a charity event.
- Clock faces using CADCAM

Further opportunities

In DT Clubap to Form 4these are some of the projects which also endechil.9 (I)- ren's' skills:

- Moiles o wind chimes
- Sweet Dispenser
- Pewter Casting
- Soft toys for enterprise initiative
- Flight–making gliders
- Marionette puppets
- Sorage container

For Form 5 and Form 6, DT Club offers the opportunity for choice based projects where individuals can be guided through a particular discipline. This may mean that an individual might be interested in developing carpentry skills o making a fabric bag. Wkodone in these sessions also allows potential Scholarship pupils to build their portfolio of work.

Contribution to Spiritual, Moral, Social and Cultural Development

DT develops SMSC in a number of ways, including:

- Reflecting on products and inventions, the diversity of materials and ways in which design can improve
 the quality of our lives
- Opportunities to work as a team, recognising others' strengths, sharing equipment
- Develop imaginatio, intuition, inspiration and insight

- Develop creativit through risk taking, imagination, perseverance, evaluation and collaboration
- Understanding how products have been invented to solve problems from a wide range of needs around the world
- Through sharing in the ability to create and invent
- Developing perserance