

## Subject Policy: Design and Technology

### Identification:

In D&T, talented and able pupils are identified using a variety of methods including;

- Levels attained from assessed tasks during lessons. The top 5% of pupils will be selected from each year group and DT staff will assess whether they are talented or able, or bright and enthusiastic.
- Teacher nominations; at the end of each term D&T staff will nominate pupils for the TAG list based on pupils performance in that area of D&T.
- A pupil may be listed as talented and/or able in one or more of the areas in D&T - Product Design, Graphic Products, Electronics, Textiles, Food/Catering & Engineering.

Each member of staff in the department is expected to mark in their registers and on their seating plans those pupils who are Gifted, Talented or Able (in D&T) and to differentiate their lessons accordingly.

### What does *Talented* mean in D&T:

Talented means that a pupil is gifted in the *practical aspects* of DT. This includes the design, development and making of a product. A talented pupil will be able to think through their ideas and be able to explain them in detail. They will have a good idea of how to make them, and will solve problems they encounter intelligently. The quality of their products will be high and detail will be accurate.

### What does *Able* mean in D&T:

Able pupils will be exceptionally good at analysis, research and evaluation sections of the design cycle

- Creates a new design
- Inventor
- Has wild, silly ideas
- Initiates projects
- Asks the questions
- Is highly curious
- Plays around, yet tests well
- Discusses in detail, elaborates
- Shows strong feelings, opinions
- Already knows
- Prefers adults
- Draws inferences
- Is intense
- Manipulates information
- Good guesser
- Thrives on complexity
- Is highly self critical

(the more academic parts). They will be thorough, detailed and accurate. They will be able to make links between analysis and the need to research certain elements before deciding on a final design.

### Comments associated with a Talented or Able pupil in D&T:

#### Provision;

In order to meet the needs of TAG pupils in D&T we provide a range of different opportunities for the development of pupils. As part of our schemes of work the D&T department provide;

- Extended tasks in each D&T project, to enable pupils to access higher levels of the national curriculum.
- Open projects which can be as complicated or as easy as the ability of the pupil, allowing for creativity and imagination.
- Projects which require pupils to work with a wide range of tools and materials to a high degree of precision.
- Investigations onto the physical properties of material, to enable pupils to make educated and reasoned choices when choosing materials.
- Leap Programme (yr10) - Building skills in DT in their first year of GCSE.
- Master Classes (yr11) - Applying new skills for use in GCSE coursework.

The D&T department also provide opportunities outside of lessons;

- • Links with primary school—introducing D&T to years 5&6.
- • IET Faraday Engineering Challenge (yr8) - team problem solving in an engineering context.
- • Flying Start Challenge (yr9) - Science & Engineering - design and build gliders in teams.