



High aspirations - Valuing learning – Achievement for all

Vision Statement: Design Engineers

1. Rationale

- 1.1 The school defines the school's curriculum vision with the *HVA Curriculum Part 1: The vision*. The purpose of this document is to clarify the vision for children as Design Engineers.

2.0 Curriculum

- 2.1 We believe that opportunities to be Design Engineers should be inspiring, rigorous and practical.
- 2.2 Our approach will:
- Teach pupils the powerful process of **research**; whereby known products related or unrelated can be drawn upon to develop critical thinking when working towards a design brief.
 - Empower pupils through **design**: a process in which new ideas are conceived and taken from the mind's eye into the made world.
 - Develop creativity and problem-solving skills, together with hand-eye co-ordination in the **precise use of tools and materials** to develop high-quality prototypes.
 - Give pupils an opportunity to **make personalised products**.
 - Reinforce the understanding that product design is evolutionary by enabling pupils to **critique, evaluate and test** their ideas and products and the work of others.
- 2.4 Pupils will be design engineers using mechanical and electrical systems, textiles and food. They will select from a wide range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities.
- 2.5 Children are given opportunities to be design engineers both through discrete and holistic study. Where appropriate links will be made to pupils' overarching key theme of enquiry so as design engineers is taught through a familiar context to the children.

3.0 Review

- 3.1 This document will be reviewed: July 2019