

# Our Curriculum INTENT



## Design and Technology

### Pupils will:

- **Master Practical Skills** in order to make high quality products
- **Design, Make, Evaluate and Improve** seeing design as a process.
- **Take Inspiration from Design Throughout History** through appreciating the design process that has influenced the products we use in everyday life.

### Underpinned by Our GEM LEARNING POWER

#### Diamond Power:

Being responsible and facing challenge

#### Ruby Power:

Supporting others

#### Sapphire Power:

Staying focused

#### Emerald Power:

Being Courageous

#### Topaz Power:

Actively Learning in a group

#### Amethyst Power:

Working well with a partner

### We will know that we have succeeded if the children can display an understanding of:

- Significant levels of originality and the willingness to take creative risks to produce innovative ideas and prototypes. (**Emerald Power**)
- An excellent attitude to learning and independent working in Design and Technology lessons. (**Diamond Power**)
- The ability to use time efficiently and work constructively and productively with others. (**Sapphire, Ruby, Amethyst** and **Topaz** Powers)
- The ability to carry out thorough research, show initiative and ask questions to develop an exceptionally detailed knowledge of users' needs. (**Sapphire** and **Emerald** Powers)
- The ability to act as responsible designers and makers, working ethically, using finite materials carefully and working safely. (**Diamond** Power)
- A thorough knowledge of which tools, equipment and materials to use to make their products. (**Diamond** and **Sapphire** Powers)
- The ability to apply Mathematical knowledge and link design criteria to ergonomics. (**Emerald** Power)
- The ability to evaluate the function of their product against the design criteria. (**Sapphire** and **Emerald** Powers)
- A passion for the subject and knowledge of, up-to-date technological innovations in materials, products and systems. (**Emerald** Power)