**Foundation subject: Design and Technology YEAR 6**

**1. DESIGNING:**

EP1. All pupils must know how to make a design for a product they wish to make

2**. COMMUNICATING IDEAS**

EP2. All pupils must know how to communicate their ideas through designs for products

**3. MAKING PRODUCTS**

EP3. All pupils must know how to select from and use a wide range of materials and components to make products.

**4. APPLYING TECHNICAL KNOWLEDGE:**

EP4. All pupils must know how to select from and use a wider range of tools and equipment to perform practical tasks accurately

5. **EVALUATINGPRODUCTS:**
EP5. All pupils must know how to investigate and analyse products
6. **EVOLUTION OF DESIGNS AND PRODUCTS**EP6. All pupils must know that materials and techniques in design technology have evolved over time

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| **Term** | **End Point 1****Designing** | **End Point 2****Communicating Ideas** | **End Point 3****Making products**  | **End Point 4****Applying technical knowledge** | **End Point 5****Evaluating products**  | **End Point 6****Evolution of designs and products**  |
|  | **1.0** | **1.1** | **1.2** | **1.3** | **2.0** | **2.1** | **2.2** | **2.3** | **3.0** | **3.1** | **3.2** | **3.3** | **4.0** | **4.1** | **4.2** | **4.3** | **5.0** | **5.1** | **5.2** | **5.3** | **6.0** | **6.1** | **6.2** | **6.3** |
| **Au** |  |  |  |  | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** |  |  | **✓** |  |  | **✓** | **✓** | **✓** |  |  | **✓** |  |  | **✓** |
| **Sp** | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** |  |  | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** | **✓** |  |
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**DESIGN & TECHNOLOGY CORE END POINTS WITH ADDITIONAL END POINTS**

Each of the six end points has three additional end points

1. DESIGNING:

**CORE END POINT**

EP1. All pupils must know how to make a design for a product they wish to make

**Additional End Points**

1.1) Most pupils should know how to translate their ideas into practical designs for making products

1.2) Most pupils should know how to research their ideas to help them improve their designs

1.3) Most pupils should know how to develop the criteria for their design to ensure that it is fit for purpose.

2. COMMUNICATING IDEAS

**CORE END POINT**

EP2. All pupils must know how to communicate their ideas through designs for products

**Additional End Points**

2.1) Must pupils should know how to generate, develop, and model their ideas

2.2) Most pupils should know how to develop their designs through discussion, annotated sketches, cross-sectional and exploded diagrams and prototypes

2.3) Most pupils should know how computer-aided design is/can be used to support the designing process

**3. MAKING AND APPLYING TECHNICAL KNOWLEDGE**

**CORE END POINT**

EP3. All pupils must know how to select from and use a wider range of tools and equipment to perform practical tasks accurately

**Additional End Points**

3.1) Most pupils should know how to use their technical knowledge to select an appropriate range of tools for cutting and shaping materials

3.2) Most pupils should know how to use the range of components and connectors in constructional kits, including electrical batteries, electric motors, lights and other appropriate equipment

3.3) Most pupils should know how to use an appropriate range of adhesives to construct, connect and join their products

**4. APPLYING TECHNICAL KNOWLEDGE:**

**CORE END POINT**

EP4. All pupils must know how to select from and use a wide range of materials and components to make products.

**Additional End Points**

4.1) Most pupils should know how use construction materials and textiles according to their functional properties

4.2) Most pupils should know how to use materials in their products according to their aesthetic qualities

4.3) Most pupils should know how to follow recipes and use ingredients to make an appropriate range of foods

5. EVALUATING

**CORE END POINT**

EP5. All pupils must know how to investigate and analyse products

**Additional End Points**

5.1) Most pupils should know how to investigate and analyse a range of existing products.

5.2) Most pupils should know how to evaluate their ideas and products against their own design criteria

5.3) Most pupils should know how to take account of the views of others to improve their work

6. EVOLUTION OF DESIGNS AND PRODUCTS

**CORE END POINT**

EP6. All pupils must know that materials and techniques in design technology have evolved over time

**Additional End Points**

6.1) Most pupils should know that throughout history people have discovered and made new materials e.g. glass, iron, steel, plastic and carbon fibres.

6.2) Most pupils should know that systems of construction and building, linking and joining materials have developed and improved over time e.g. glue guns, duct tape, super glue etc.

6.3) Most pupils should know that developments over time in design and technology have changed the way ingredients are kept, stored, mixed and cooked e.g. fridges, gas and electric ovens, microwave ovens electric mixers etc.