## End of EYFS Expectations

## Expressive Arts and Design

Creating with Materials
Children at the expected level of development will:

- Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function;
- Share their creations, explaining the process they have used;
- Make use of props and materials when role playing characters in narratives and stories.


## Being Imaginative and Expressive

Children at the expected level of development will:

- Invent, adapt and recount narratives and stories with peers and their teacher;
- Sing a range of well-known nursery rhymes and songs;
- Perform songs, rhymes, poems and stories with others, and - when appropriate - try to move in time with music.

Key Stage 1 Expectations

## Pupils should be taught:

## Design

- design purposeful, functional, appealing products for themselves and other users based on design criteria
- generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology
Make
- select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]
- select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics


## Evaluate

- explore and evaluate a range of existing products
evaluate their ideas and products against design criteria


## Technical knowledge

- build structures, exploring how they can be made stronger, stiffer and more stable


## Key Stage 2 Expectations

## Pupils should be taught:

## Design

- use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups
- generate, develop, model and communicate their ideas through discussion, annotated sketches, crosssectional and exploded diagrams, prototypes, pattern pieces and computeraided design
Make
- select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately
- select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities
Evaluate
- investigate and analyse a range of existing products


- explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.
- evaluate their ideas and prodưts dag ${ }^{\circ}$ a $t^{\circ}$ their own design criteria and consider the views of others to improve their work
- understand how key events and individuals in design and technology have helped shape the world
Technical knowledge
- apply their understanding of how to strengthen, stiffen and reinforce more complex structures
- understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]
- understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]
- apply their understanding of computing to program, monitor and control their products.

The national curriculum for art and design aims to ensure that all pupils by the end of year 6:

- develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world
- build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users
- critique, evaluate and test their ideas and products and the work of others
- understand and apply the principles of nutrition and learn how to cook.

|  | Structures | Mechanisms | Electrical Systems | Food | Textiles |
| :---: | :---: | :---: | :---: | :---: | :---: |
| EYFS |  | $\checkmark$ |  | $\checkmark$ |  |
| Year 1 |  | $\checkmark$ |  |  | $\checkmark \quad$ Linked with Art |
| Year 2 | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |
| Year 3 | $\checkmark$ | $\checkmark$ |  |  | $\checkmark \quad$ Linked with Art |
| Year 4 | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |
| Year 5 | $\checkmark$ | $\checkmark$ |  |  | $\checkmark \quad$ Linked with Art |
| Year 6 |  |  | $\checkmark$ | $\checkmark$ |  |

Nursery

|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DT Aspect |  | Food <br> Raising aspirations |  | Mechanisms <br> Exploring sounds |  |  |
| Designer linked <br> to skill |  | Nadiya Hussain |  | Alexander Graham <br> Bell |  |  |
| Outcome |  | Festival food tasting |  | Explore Walkie <br> Talkies. |  |  |

Reception

|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DT Aspect |  | Food <br> Raising aspirations |  | Mechanisms <br> Exploring sounds |  |
| Designer linked <br> to skill |  | Nadiya Hussain |  | Alexander Graham |  |
| Outcome |  | Making Christmas <br> bakes! |  | Bell |  |

## Key Stage 1

Year 1

|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DT Aspect |  |  | Textiles <br> Templates and <br> Joining Techniques |  |  |  |
| Wesigner linked and Axles <br> (o skill |  |  | James Fox |  | George Stephenson |  |
| Outcome |  |  | Case for a tablet |  |  |  |

Year 2

|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DT Aspect |  | Mechanisms Sliders and Levers |  | Food Preparing Fruit and Veg |  | Structures <br> Free Standing Structures |
| Designer linked to skill |  | Samuel Crompton |  | Jamie Oliver |  | The Wright Brothers |
| Outcome |  | Christmas Card with moving character |  | Fruit and Veg Kebabs |  | Children's Playground |

## Lower Key Stage 2

| Year 3 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DT Aspect | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |  |
| Dexigner linked |  | Mechanisms <br> Pneumatics <br> to skill | Textiles <br> 2D shapes to 3D <br> product |  | Structures <br> Shell Structures using <br> computer aided <br> design (CAD) |  |  |
| Outcome |  | Richard Arkwright | Coco Chanel |  | Gustave Eiffel |  |  |

## Year 4

|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DT Aspect |  | Mechanisms Levers and linkages | Electrical Systems <br> Simple circuits and switches | Food Healthy and Varied Diet |  | Structures Shell Structures |
| Designer linked to skill |  | James Dyson | Edith Clarke | Heston Blumenthal |  | Thomas Edison |
| Outcome |  | Christmas Card with moving parts | Lego We Do | Sandwiches |  | Money Box (cube) |

## Upper Key Stage 2

|  | Autumn 1 | Autumn 2 | Sear 5 | Spring 1 | Spring 2 | Summer 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DT Aspect |  | Structures <br> Frame Structures | Textiles <br> Combining different <br> fabric shapes |  |  | Mechanisms <br> Pulleys or Gears |
| Designer linked <br> to skill |  | Isambard Kingdom <br> Brunel | Faith Ringgold |  | Margaret E. Knight |  |
| Outcome |  | Playground Shelter | Bag - fastening, <br> applique, embroidery |  | Fairground ride with <br> gears or pulleys |  |

## Year 6

|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DT Aspect |  |  | Electrical Systems <br> Complex circuits and <br> switches | Food <br> Celebrating culture <br> and seasonality |  |  |
| Designer linked <br> to skill |  | Sir Jony Ive | Lisa Goodwin-Allen |  |  |  |
| Outcome |  |  | Sphero | Soup |  |  |

