

# NEW NATIONAL CURRICULUM – 2014

## SUBJECT AREA: Design & Technology

### End of year expectations:

#### Year 1

- begin to design purposeful, functional and appealing products
- generate, model and communicate their ideas through talking, drawing and templates
- use a range of tools and materials to complete practical tasks i.e. cutting, shaping and joining
- evaluate existing products and own ideas
- cooking & nutrition – begin to use the basic principles of a healthy and varied diet/begin to understand where food comes from

### End of year expectations:

#### Year 2

- confidently design purposeful, functional and appealing products
- generate, model and communicate their ideas through mock ups and, where appropriate, information and communication technology
- use a range of tools and materials to complete practical tasks such as cutting, shaping, joining and finishing
- evaluate existing products against design criteria
- cooking & nutrition – use the basic principles of a healthy and varied diet/understand where food comes from

#### Year 3

- use research and criteria to develop products which are fit for purpose
- use annotated sketches and prototypes to explain ideas

- use a wide range of materials - textiles
- evaluate existing products and improve own work
- use mechanical systems in own work – cams, levers and linkages
- understand seasonality, prepare and cook mainly savoury dishes

End of year expectations:

Year 4

- use research and criteria to develop products which are fit for purpose
- select from and use a wide range of materials - ingredients
- use annotated sketches and prototypes to explain ideas
- evaluate existing products and improve own work
- understand how key events and individuals have helped shape the world
- use electrical systems in products – series circuits, switches, bulbs, buzzers and motors
- understand seasonality, prepare and cook mainly savoury dishes

End of year expectations:

Year 5

- use research and criteria to develop products which are fit for purpose and aimed at specific groups
- select from and use a wider range of tools and equipment to perform practical tasks i.e. cutting, shaping, joining and finishing
- evaluate existing products and improve own work
- apply their understanding of how to strengthen, stiffen and reinforce more complex structures
- understand and use mechanical systems in their products i.e.

gears and pulleys

- cook savoury dishes for a healthy, varied diet

End of year expectations:

Year 6

- use research and criteria to develop products which are fit for purpose and aimed at specific groups
- select from and use a wider range of materials and components including construction materials and textiles
- evaluate existing products and improve own work
- apply their understanding of computing to programme, monitor and control their products
- cook savoury dishes for a healthy, varied diet