Subject: DT

RECEPTION			YEAR 1			YEAR 2			YEAR 3			YEAR 4			YEAR 5			YEAR 6		
AUTUMN	SPRING	SUMMER	AUTUMN	SPRING	SUMMER	AUTUMN	SPRING	SUMMER	AUTUMN	SPRING	SUMMER	AUTUMN	SPRING	SUMMER	AUTUMN	SPRING	SUMMER	AUTUMN	SPRING	SUMMER
Provision opportunities to learn how to use a range of tools. Skills such as cutting, rolling pins (playdough), pastry cutters. Design and make a clay Diva lamp. Baking Gingerbread Men.	Spoon puppets Junk modelling: houses, boats and bridges Baking Bread (Little Red Hen)	Construct with a purpose in mind Join materials in free flow play. Use language to join, build and shape modelled by adults during choosing. Design a pair of underpants	Design and make a birdfeeder Making human and bird /flapjack'	Make a shield for a knight		Wheeled vehicles – Design and make a fire engine	Textiles – sewing, decoration and dying (taught through Art) Structures (continued into the Summer term)	Structures (continued)– design and make a model of something you would find in a garden		Shell Structures – Design and Make a Desk Tidy Gold Task – Independently design and make a shell structure product.	Control and monitor models using software designed for this purpose – Microbits – Tamagotchi style toy Levers and Linkages - Viking moving picture	Exploring bridges	Making dips		Cams – long unit. Making and designing a cam toy .		Making bread		Design and make an arched structure. Chn study different types of arches, make prototypes and design and create an arched building	Program, monitor and control a product. Build a robot using a MicroBit and programme it using iPads to move in particular directions. The robot then needs to be strengthened with different techniques researched. Create a new shell and re-programme the robot to follow a course. Computing link.

Alvey Values

We encourage the children to find a reason to make something, then design, build and evaluate their work.

Significant levels of originality and the willingness to take creative risks to produce innovative ideas and prototypes.
An excellent attitude to learning and independent working.
The ability to use time efficiently and work constructively and productively with others.
The ability to carry out thorough research, show initiative and ask questions to develop an exceptionally detailed knowledge of users' needs.
The ability to act as responsible designers and makers, working ethically, using finite materials carefully and working safely.
A thorough knowledge of which tools, equipment and materials to use to make their products.
The ability to apply mathematical knowledge.
The ability to manage risks exceptionally well to manufacture products safely and hygienically.
A passion for the subject and knowledge of, up to date technological innovations in materials, products and systems.