BISAK

Year 7 Design and Technology

V1 2026

	Term 1		Term 2		Term 3	
Overview	**Classroom and Workshop Safety,** Pupils will be taught to safely work in the classroom and workshop using a range of different tools.	**Isometric Sketching** Pupils will be taught to communicate their ideas using Isometric design techniques.	**Door Hanger** Following the design process, pupils will prototype, design, build and evaluate a simple 2.5D object that is a door hanger.	**UK Clock** Following the design process, pupils will prototype, design, build and evaluate a simple 2.5D object that is a UK clock.	**Recycle Plastic** Pupils will learn the different types of plastic and how each can be recycled.	How can I convert bottle tops to profit?
Key Skills	Pupils will be able to use knives, safety rulers, cutting mats, adhesives, saws and drills safely.	Pupils will be able to draw, outline and shade ideas Pupils will be able to sketch complex shapes using a range of primitives (Cubes, Cylinders, etc)	Pupils will use the design process to create a 2.5 D door hanger. Pupils will learn to design using software, operate Laser Cutters, decorate product and evaluate result.	Pupils will use the design process to create a 2.5 D clock. Pupils will learn to design incorporating a cultural theme, design using software, operate Laser Cutters, decorate product and evaluate result.	Able to describe why we should recycle plastic Understand the implications of not recycling plastic Able to produce	Be able to describe the concept of the Circular Economy Be able to describe the process of recycling plastic.
Assessment Focus	How to safely use tools in classroom and workshop	How to communicate ideas using isometric sketching	How to create 2.5 D objects	How to design a clock	How to recycle plastic to flat sheets	How to turn recycling to a business