

Design & Technology Knowledge Organiser

Year Six — Model Wind Turbine



Design

Carry out research into land and sea based wind turbines.

Develop a simple design specification to guide the development of their ideas and product.

Generate, develop and model innovative ideas, through discussion, prototypes and annotated sketches

Make

Formulate a clear plan, including a step-by-step list of what needs to be done and lists of resources to be used.

Select from and use appropriate tools to accurately measure, mark out, cut, shape and join construction materials to make frameworks.

Use finishing and decorative techniques suitable for the product they are designing and making

Evaluate

Critically evaluate their products against their design specification, intended user and purpose, identifying strengths and areas for development.

Links to prior learning

Experience of using measuring, marking out, cutting, joining, shaping and finishing techniques with construction materials.

Experience of using tools such as saw, bench hook and glue gun.

Experience of creating shell structures.

Understanding of how to strengthen structures.