

Products



Year 6 Autumn Term

Structures

What I already know?
<ul style="list-style-type: none"> I have design and created my own mechanism including wheels, axels, levers, cams, gears and pulleys. I have designed and built structures including wooden frames and digital structures. I have created an electrical circuit and found ways of joining materials together

Key Knowledge
<p><u>Design</u></p> <ul style="list-style-type: none"> identify the needs, wants, preferences and values of particular individuals and groups develop a simple design specification to guide their thinking generate innovative ideas, drawing on research

<p><u>Making</u></p> <ul style="list-style-type: none"> formulate step-by-step plans as a guide to making accurately measure, mark out, cut and shape materials and components accurately assemble, join and combine materials and components • accurately apply a range of finishing techniques, including those from art and design demonstrate resourcefulness when tackling practical problems

<p><u>Evaluating</u></p> <ul style="list-style-type: none"> critically evaluate the quality of the design, manufacture and fitness for purpose of their products as they design and make

Vocabulary	
Structures	a building or other object constructed
Product design	The process of imagining and creating products that solve users' problems or address specific needs
Investigate	carry out research or study
Evaluate	form an idea of the amount, number, or
Effectiveness	the degree to which something is success-
Purposefulness	the fact of having a useful purpose; behaviour that shows a clear aim and determination.
Adapting	make (something) suitable for a new use

Key Technical Knowledge
<ul style="list-style-type: none"> how mechanical systems such as cams or pulleys or gears create movement how more complex electrical circuits and components can be used to create functional products how to program a computer to monitor changes in the environment and control their products how to reinforce and strengthen a 3D framework

