



ALMOND HILL JUNIOR SCHOOL MEDIUM TERM PLAN

TOPIC TITLE/SUBJECT: DT: Mechanisms and Enterprise Week

YEAR GROUP: 3

TERM: Autumn 2

<p>Vocabulary: mechanism function design criteria prototype template Lever Linkages Construct, assemble, components generate, communicate, characteristics of materials direction, movement fixed / loose pivot</p>	<p>Skills</p> <p>DT (DESIGN, MAKE, EVALUATE)</p> <ul style="list-style-type: none"> • Explore mechanical systems. • Draw a simple annotated design. • Start to generate ideas for design criteria. • Make a prototype and finished card which has at least one lever/ linkage mechanism (modify final outcome based on the evaluation of prototype) • Evaluate what they did well on their product and things they could improve 	<p>What we already know</p> <ul style="list-style-type: none"> • How to design a product for a purpose • Use a selection of tools safely and accurately (scissors, rulers, split pins) <p>Year 2 topics:</p> <ul style="list-style-type: none"> • Use of simple levers, sliders, axle wheels • Choose from a range of materials • Trial and error, fixing and amending • The simple design / evaluation process.
<p>Illustration</p>	<p>Application/ Outcomes</p> <ul style="list-style-type: none"> • Design of a product (a Christmas card) for a specific purpose (Enterprise sale) • Construction and analysis of different prototypes using different types of lever • Construction of a 'final product' – a card with a moving part / lever and linkage system • Selling a product at an Enterprise sale 	<p>Concepts</p> <ul style="list-style-type: none"> • Product must be designed for a specific person (family member or friend) • A lever is a mechanism to move something with little force • Levers must be linked in some way • A product must be designed for a specific purpose • Products can be evaluated and improved during the design process

Other/Cross Curricular Links with English/Maths/Adaptation for SEND Maths – pricing a product

Science - forces

Art – design of a card that is aesthetically pleasing

SEND Adaptations – word-banks, image-mats, mixed ability pairings, varying outcomes, simplified design and evaluation resources.