

ADVENT TERM
Design Technology – Year 1 - Medium Term Planning – Structure
Design and build a structure

LESSON 1	LESSON 2	LESSON 3
<p>LEARNING INTENTION: To know that materials have properties which make them fit for different purposes.</p> <p>Skills: To name what an object is made from.</p> <p>Aim: Build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users.</p>	<p>LEARNING INTENTION: To know that a shelter is a structure that provides protection.</p> <p>Skills: To describe and compare two different shelters.</p> <p>Aim: Build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users.</p>	<p>LEARNING INTENTION: To know that design criteria are explicit goals that a product must achieve.</p> <p>Skills: To create a design that meets specific criteria.</p> <p>Aim: Build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users.</p>
<p>Key Vocabulary: Wood, plastic, glass, metal, water, rock, brick, paper, fabric, materials, properties.</p>	<p>Key Vocabulary: Permanent, temporary, shelter, strong, sturdy, differences.</p>	<p>Key Vocabulary: Waterproof, strong, sturdy, materials, fit for purpose.</p>
<p>Recap & retrieval – FS exploration of materials through play.</p>	<p>Recall & retrieval</p> <ul style="list-style-type: none"> Different materials have different properties. 	<p>Recall & retrieval –</p> <ul style="list-style-type: none"> Different materials have different properties. A shelter is a structure designed to give protection from weather or danger.

<p>Key Knowledge:</p> <p>Child:</p> <ul style="list-style-type: none"> • Different materials have different properties. • Some are strong, absorbent, waterproof and transparent, flexible, brittle, etc. <p>Teacher:</p> <ul style="list-style-type: none"> • Everyday materials include wood, plastic, glass, metal, water, rock, brick, paper and fabric. • A material's properties can influence whether it is fit for purpose. 	<p>Key Knowledge:</p> <p>Child:</p> <ul style="list-style-type: none"> • A shelter is a structure designed to give protection from weather or danger. • Permanent means that it cannot be moved or taken down. • Temporary means that it can only stay for a short amount of time. <p>Teacher:</p> <ul style="list-style-type: none"> • A bus shelter, office block, garage, carport, tent, bird table, shed, conservatory, house, kennel and caravan are all examples of shelters. • A shelter can be permanent, like a house or garage, or temporary, like a tent or gazebo. • Everyday products are objects that are used routinely at home and school, such 	<p>Key Knowledge:</p> <p>Child:</p> <ul style="list-style-type: none"> • A successful product must match the design criteria. <p>Teacher:</p> <ul style="list-style-type: none"> • A shelter needs to be waterproof. • A shelter needs to be strong and sturdy. • A shelter needs to be the right size for its purpose.
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Design and build a structure

LESSON 4	LESSON 5	LESSON 6
<p>LEARNING INTENTION: To know that the properties of materials impact their effectiveness in different practices.</p> <p>Skills: To use a range of materials to build simple structures.</p> <p>Aim: Develop the creative, technical and practical expertise needed to perform everyday tasks confidently.</p>	<p>LEARNING INTENTION: To know that previous design criteria can be used for other projects.</p> <p>Skills: To understand what is needed to create a safe structure.</p> <p>Aim: Build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users.</p>	<p>LEARNING INTENTION: To know that a product can be improved by using others' ideas.</p> <p>Skills: To talk about their own and each other's work, identifying strengths or weaknesses and offering support.</p> <p>Aim: Critique, evaluate and test their ideas and products and the work of others.</p>
<p>Key Vocabulary: Suitable, sink, purpose, properties, measurements.</p>	<p>Key Vocabulary: Design criteria, analyse, join, fix, collaborate.</p>	<p>Key Vocabulary: Evaluate, improve, positives, negatives, strengths, weaknesses</p>
<p>Recall & retrieval</p> <ul style="list-style-type: none"> • Different materials have different properties. • A shelter is a structure designed to give protection from weather or danger. • A successful product must match the design criteria. 	<p>Recall & retrieval</p> <ul style="list-style-type: none"> • Different materials have different properties. • A shelter is a structure designed to give protection from weather or danger. • A successful product must match the design criteria. • Different materials can be used for different purposes, depending on their properties. 	<p>Recall & retrieval</p> <ul style="list-style-type: none"> • Different materials have different properties. • A shelter is a structure designed to give protection from weather or danger. • A successful product must match the design criteria. • Different materials can be used for different purposes, depending on their properties. • When designing a product, the choice of materials will affect the outcome of the product.
<p>Key Knowledge:</p>	<p>Key Knowledge:</p>	<p>Key Knowledge:</p>

<p>Child:</p> <ul style="list-style-type: none"> • Different materials can be used for different purposes, depending on their properties. • A play den is a shelter, usually built outside. • It is a temporary structure made from found or readily available materials. • It can be used for imaginative play or to provide protection from the weather. <p>Teacher:</p> <ul style="list-style-type: none"> • Cardboard is a stronger building material than paper. • Plastic is light and can float. • Clay is heavy and will sink. • Glass is transparent, so it is suitable to be used for windows. 	<p>Child:</p> <ul style="list-style-type: none"> • When designing a product, the choice of materials will affect the outcome of the product. • Rules are made to keep people safe from danger. <p>Teacher:</p> <ul style="list-style-type: none"> • Different materials may not be suitable for different products because of their properties. 	<p>Child:</p> <ul style="list-style-type: none"> • Testing a product can support the finding of improvements. • A strength is a good quality of a piece of work. • A weakness is an area that could be improved. <p>Teacher:</p> <ul style="list-style-type: none"> • Safety rules include always listening carefully and following instructions, using equipment only as and when directed, wearing protective clothing if appropriate and washing hands before touching food. • Different materials can be used for different purposes, depending on their properties.
<p>Assessment Cumulative quiz. Retrieval practice.</p>		