



## D&T MEDIUM TERM PLANNING -

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| <b>Year Group:</b> Y1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>TERM:</b> Aut 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Theme:</b> Into the Woods                                                                        |
| <p><b>National Curriculum:</b> Ensure pupils develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world; 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; critique, evaluate and test their ideas and products and the work of others.</p>                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                     |
| <p><b>Context: -</b><br/>Build structures, exploring how they can be made stronger, stiffer and more stable.<br/>Children to have access to high quality continuous provision to explore design and technology skills.<br/>Use of TASC record sheets where they can design and draw their ideas and communicate tools and equipment they will need.</p>                                                                                                                                                                 | <p><b>Concepts:</b> Product, construction, materials, evaluate, purpose.</p>                                                                                                                                                                                                                                                                                                                                                                                                               | <p><b>Vocabulary:</b> Structure, strong, stiff, stable, materials, product, construct, purpose.</p> |
| <p><b>Prior Knowledge:</b></p> <ul style="list-style-type: none"> <li>• Children know how to use and explore a variety of tools and materials safely.</li> <li>• Children know how to explore ways of joining materials in the most effective ways to create 3D models.</li> <li>• Children know how to combine media and materials for a planned effect.</li> </ul>                                                                                                                                                    | <p><b>Future Knowledge:</b></p> <ul style="list-style-type: none"> <li>• Children will be able to explain materials they will need to make their build and explore different ways to ensure it is strong and stable.</li> <li>• Children will be able to use the TASC process to evaluate what they did well and what they could improve.</li> <li>• Children will be able to design a product following a given brief and evaluate to ensure their product is fit for purpose.</li> </ul> |                                                                                                     |
| <p><b>End points /by the end of this unit pupils will...</b></p> <ul style="list-style-type: none"> <li>• Be able to work together to produce a den for different woodland animals using a range of resources.</li> <li>• Build dens in different ways using large and small construction as well as the outdoor provision.</li> <li>• Be able to communicate their ideas and what equipment and tools they will need using TASC sheet.</li> <li>• Use the continuous provision to explore their own design.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                     |

## Lesson Number 1

**Key learning:**

Children explore and investigate dens

**Concepts:**

Product, materials, evaluate, purpose, mechanisms.

**Introduction:**

Show children a range of dens made of various materials.

**Direct teaching**

Ask the children to explore and evaluate a range of existing products.

**Success Criteria:**

Explore and investigate a range of wheels and axles to know what characteristics make a good set of wheels and axles.

**Suggested resources:**

WAGOLL

Discuss findings – Encourage children to think of which materials are most suitable depending on the purpose of the den.

**Activity**

Children explore and evaluate a range of existing products.

Children discuss what characteristics make a sturdy den, a waterproof den, etc...

**Key Questions**

What different materials can we use to make a den?

What do we need to think of when designing a den (do you need to pick waterproof, thermal etc materials?)

**Challenge:**

**Adaptive teaching for SEND:**

**Vocabulary:** Structure, strong, stiff, stable, materials, product, construct, purpose.

## Lesson Number 2

**Key learning:**

Children build dens in different ways using large and small construction and outdoor provision for animals.

**Concepts:**

Product, materials, evaluate, purpose, mechanisms.

**Introduction:**

Recap on previous findings. Which materials will be fit for purpose?

**Direct teaching**

Teacher will model how to use TASC style design sheets in continuous provision for children to be able to communicate their ideas and what equipment and tools they will need..

**Success Criteria:**

Explore and investigate a range of wheels and axles to know what characteristics make a good set of wheels and axles.

**Suggested resources:**

- TASC Sheet
- Junk modelling
- Loose parts
- Natural materials
- Fabrics
- Glue
- Stapler
- Clips

**Activity**

Children will use the enhanced continuous provision to explore their own design ideas based upon the topic theme and challenges set.

**Key Questions**

- What tools and equipment do you need to build your den?
- What materials could you use to make your den waterproof?
- How could you make your den stiffer?
- What will your den look like?
- What would you do differently next time and why?

**Challenge:**

**Adaptive teaching for SEND:**

**Vocabulary:** Structure, strong, stiff, stable, materials, product, construct, purpose.