

# Leintwardine Endowed CE Primary School Learning Journey Itinerary

## 'Letting Our Light Shine'

SUBJECT : D&T

YEAR : A

TERM : Spring 2

YEAR GROUPS : 3/4

### Key Question : Are greenhouses actually green?

Previous Knowledge – We would expect children to already be able to:  
 Follow a design brief to design a purposeful, functional and appealing product.  
 Use a range of tools and equipment safely and effectively.  
 Use different materials.  
 Explore different ways to make a structure stronger, stiffer and more stable.  
 Use different materials.  
 Use drawings and mock-ups to show their ideas.  
 Evaluate a range of existing products against a design criteria.  
 Create scaled down models of their ideas.

#### END OF UNIT OBJECTIVES

Some children will not yet have met what is expected and will show that they are emerging because they can:	Most children will show that they have reached the expected level because they can:	Some children will have gone beyond the expected level and will show that they are exceeding because they can:
Explain what a greenhouse is used for and how they help plants grow  With support, explain the term 'stable'  With support, discuss how to make a structure more or less stable  Identify and explain different materials that are suitable to build a greenhouse  Describe ways of joining two materials  With support, follow a design criteria  Overcome challenges with support  Create a successful product with support  Give ways a product can be improved  Work safely and sensibly with different materials and tools  Evaluate a product with support	Explain what a greenhouse is used for and how they help plants grow  Explain the term 'stable'  Discuss how to make a structure more or less stable  Identify and explain different materials that are suitable to build a greenhouse  Describe ways of joining two materials  Follow a design criteria  Overcome challenges with some support  Create a successful product with some support  Give ways a product can be improved  Work safely and sensibly with different materials and tools  Evaluate a product with some support	Explain what a greenhouse is used for and how they help plants grow in detail  Explain the term 'stable' why a structure might be stable.  Discuss how to make a structure more or less stable  Identify and explain different materials that are suitable to build a greenhouse and use topic specific vocabulary  Describe ways of joining two materials  Follow a design criteria accurately  Overcome challenges independently  Create a successful product  Independently give ways a product can be improved  Work safely and sensibly with different materials and tools  Independently evaluate a product

#### ASSESSMENT OPPORTUNITIES

Discussion in lessons  
 Recap slides  
 Kahoot quiz  
 Assessment of final product  
 Children's self-assessments

#### ENRICHMENT OPPORTUNITIES

Helping children to remember more

#### SUBJECT SPECIFIC VOCABULARY

glass greenhouse collapse materials design evaluate stable design criteria product	join suitable equal weight spread steady strong safe Design dilemma
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#### CROSS-CURRICULAR LINKS

Links that we can make to help children make sense of what we want them to know and be able to do.

Visiting local greenhouses.  
 Visit to lane cottage greenhouses.

Computing – Using Ipads to research existing products.