

Our DT Learning Journey

Key vocabulary:

Greenhouse, Transparent,
Growing, Plants, Glass,
Sturdy, Structure

To design the structure of a greenhouse thinking of its purpose.

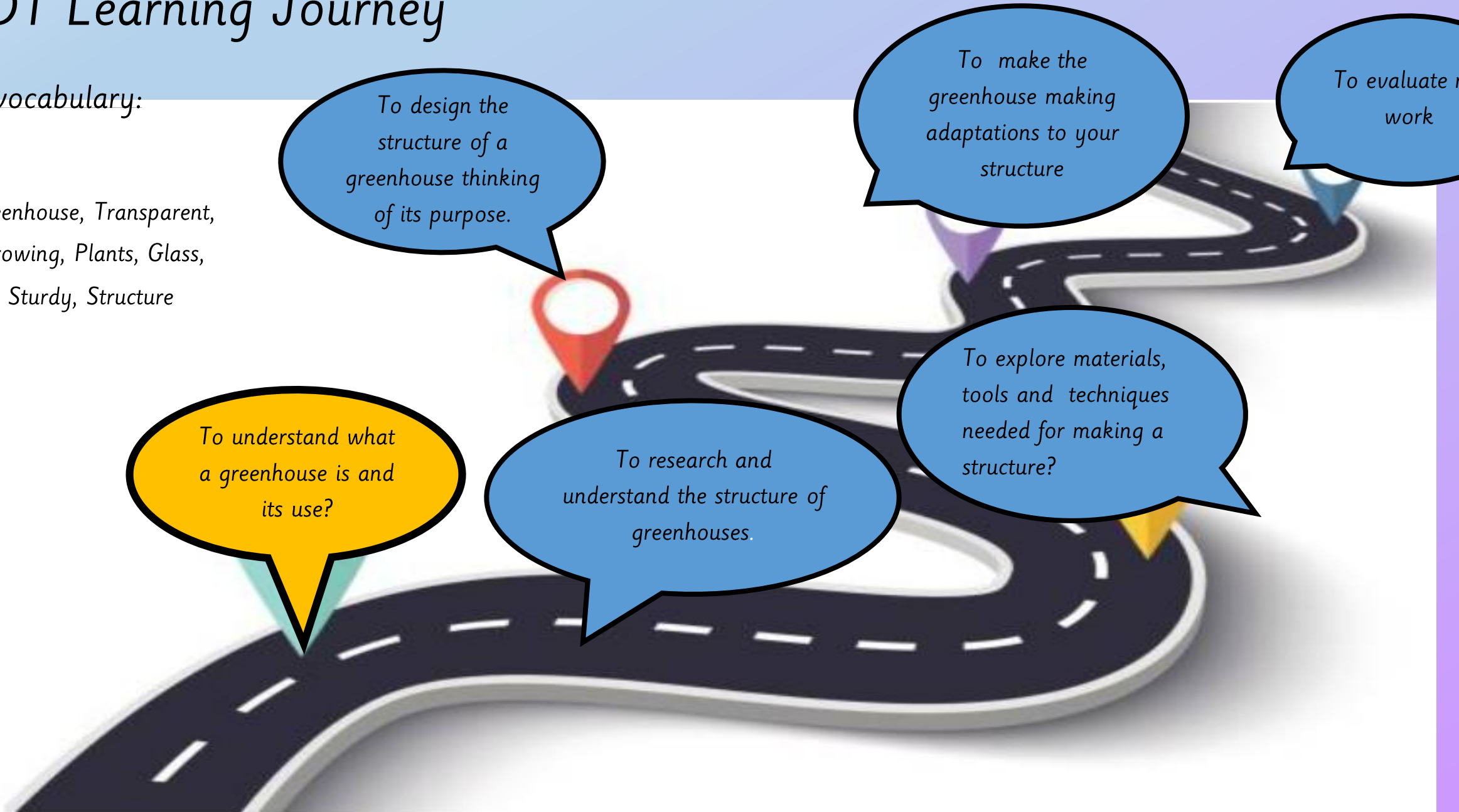
To make the greenhouse making adaptations to your structure

To evaluate work

To understand what a greenhouse is and its use?

To research and understand the structure of greenhouses.

To explore materials, tools and techniques needed for making a structure?



WB:Monday 15th April 2024



LQ: Can I understand what a greenhouse is and how can I use it?

Steps to Success



All – I can understand what a greenhouse is.

Most – I can say what a greenhouse is used for.

Some – I can explain the purpose of a green house and name the features.

STAR WORDS



Transparent

Growing

Sturdy

Plants

Glass

Greenhouse



Structure

LQ: Can I understand what a greenhouse is and how can I use it?

Recap learning

TP – What do you remember about DT? What is DT?

DT stands for Design Technology. This is where you will be using your skills to create 3D objects. You will be using different resources and medium to create an object.

LQ: *Can I understand what a greenhouse is and how can I use it?*

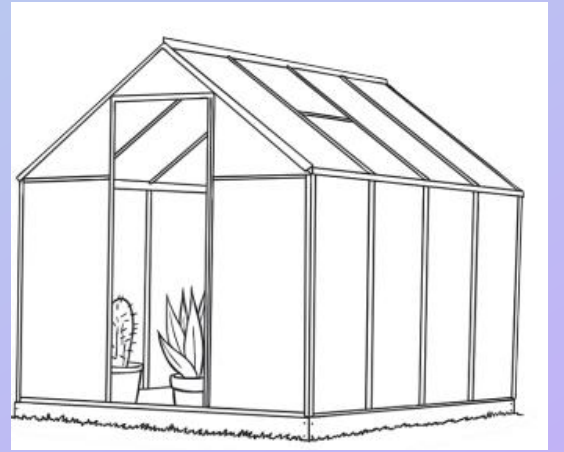
This term we are going to be greenhouse inventors. This is very exciting.

TP – What do you know about greenhouses? What are they used for?



LQ: Can I understand what a greenhouse is and how can I use it?

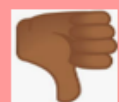
A greenhouse is a glass structure where plants grow. The walls are made of glass. Greenhouses creates an artificial environment by carefully controlling the temperature, light, humidity, air quality, soil moisture and heat levels. All this helps the plants grow.



TP. Why do you think greenhouses are made out of glass?

Self Assessment

Do you understand what a greenhouse is?



LQ: *Can I understand what a greenhouse is and how can I use it?*

This term you will be visiting a green house. We will be looking at the different parts of the structure.

TP. Why do some plants needs to be planted and kept in a greenhouse and other plants not?

TP. Have you heard of an allotment? What is an allotment?



An allotment is a place **where you can grow fruit, vegetables and flowers**. Lets look at the video and compare an allotment to a greenhouse.

[What is an allotment? - EYFS - Reception - BBC](#)

[Bitesize](#)

TP. What is the difference between an allotment and a greenhouse? [What is an Allotment? \(youtube.com\)](#)

LQ: Can I understand what a greenhouse is and how can I use it?

TP. Can you name the structure of a greenhouse?

What must a greenhouse have? Let's discuss!

- *A greenhouse has walls and a ceiling made primarily out of glass or other transparent materials.*
- *The glass used to build a greenhouse should be a horticultural glass grade.*
- *The glass needs to be free of air bubbles, which can act like a magnifying glass and burn plants.*
- *The size of a greenhouse varies, they can be as small as a backyard shed or as large as a warehouse.*
- *Greenhouses for personal uses are typically smaller and contain between 50 and 200 square feet.*
- *Greenhouses for industrial use are typical big and, in many cases, exceed 100,000 square feet.*



LQ: Can I understand what a greenhouse is and how can I use it?

The Eden project is one of the biggest greenhouses in Cornwall, England, and it has two big domes that look like huge bubbles. Inside these bubbles, they can make different kinds of weather, so plants that like it hot and steamy or nice and cool can grow there. It's a place where you can see how important plants are and learn about how we can take care of our planet.



Let's have a virtual tour of the Eden Project!!

[The Eden Project UK The Largest Greenhouse In the World \(youtube.com\)](#)

TP. What do you notice about the structure of the Eden Project?

LQ: Can I understand what a greenhouse is and how can I use it?

Let's have a look at another type of greenhouse which is based in London. This is called Kew gardens.



Let's watch the virtual video about Kew gardens and discuss after.

[Kew Gardens - Virtual Tour \(youtube.com\)](https://www.youtube.com/watch?v=KewGardensVirtualTour)

TP. What do you notice about Kew gardens?

TP. What is the structure of Kew gardens?

LQ: Can I understand what a greenhouse is and how can I use it?

TASK

Have a class discussion about greenhouses. Think about these questions.

What do you already know about greenhouses?

Why do we have greenhouses?

What are they made out of? Why is this a suitable material?

Self Assessment

Do you understand what to do?

