

Great  
Science  
Share  
for SCHOOLS

# Great Glider Share 5-7 years



Jules Pottle & R. Thomas

Garry

Vivvy

Winners of  
ASE 'Book of the Year'  
2019 with  
'The Molliebird'



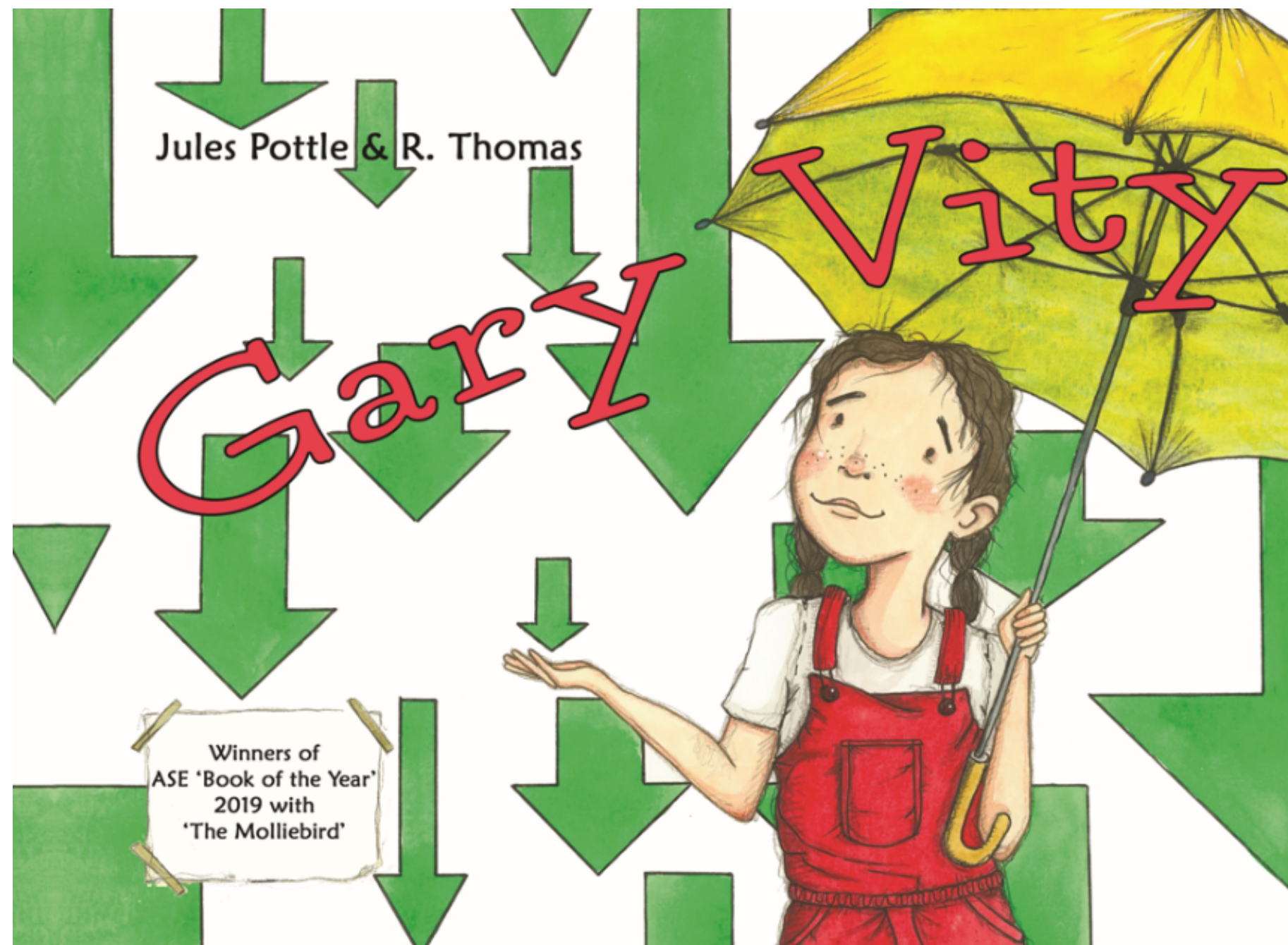


# Link to the story

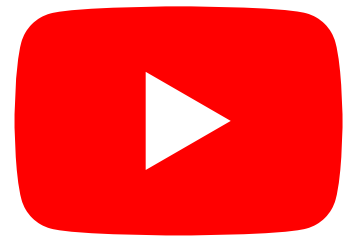
<https://youtu.be/pKvdZXuTocc>



**Author: Jules Pottle**



# Aerospace engineer – what do they do?



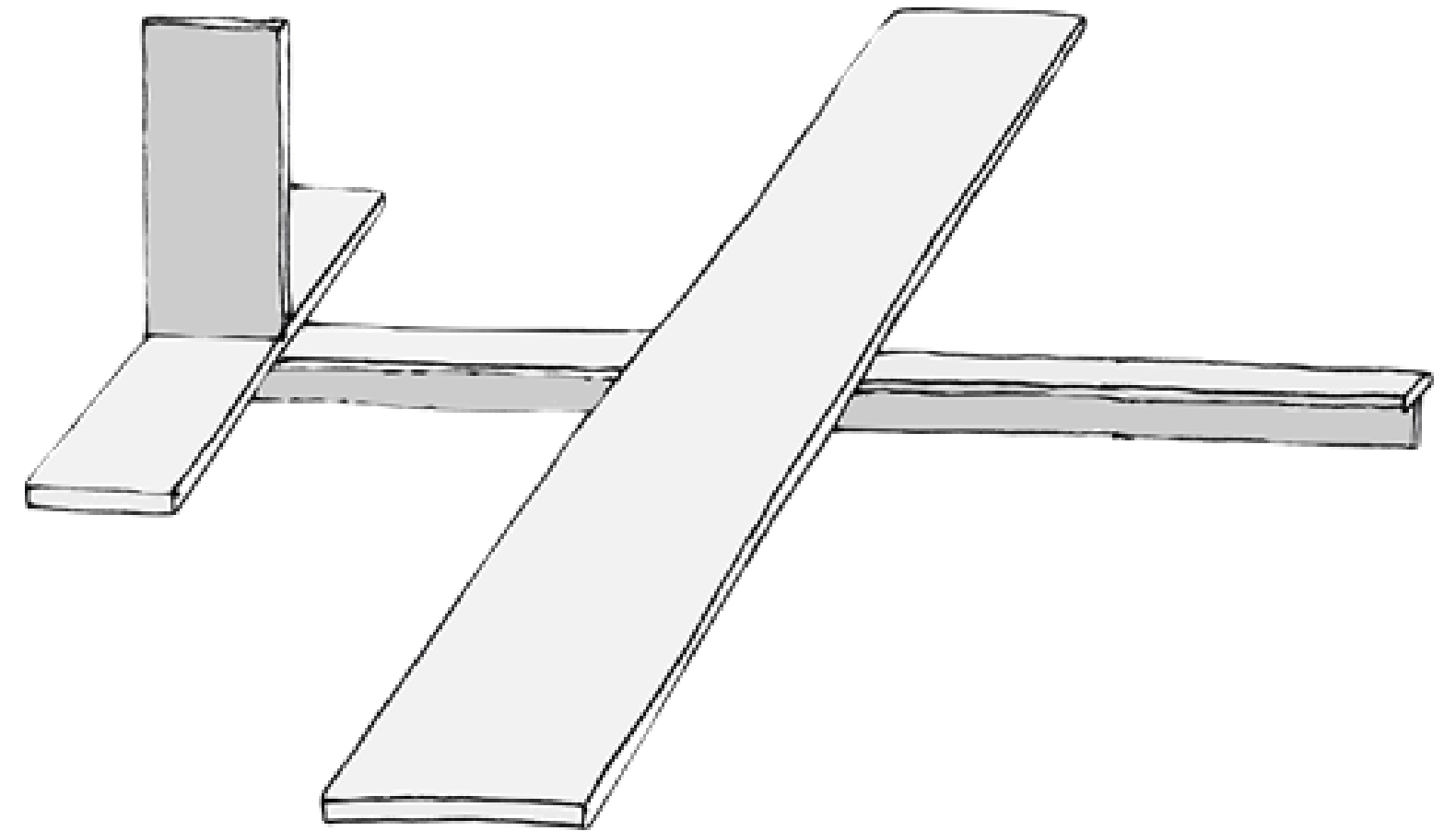
**Link to an introduction  
to the enquiry**

<https://youtu.be/Bfs9mKsy-Gw>



**Dr Ben Parslew  
Aerospace Engineer**

# Spot the difference



**tail**

**fin**

**wing**

**fuselage**

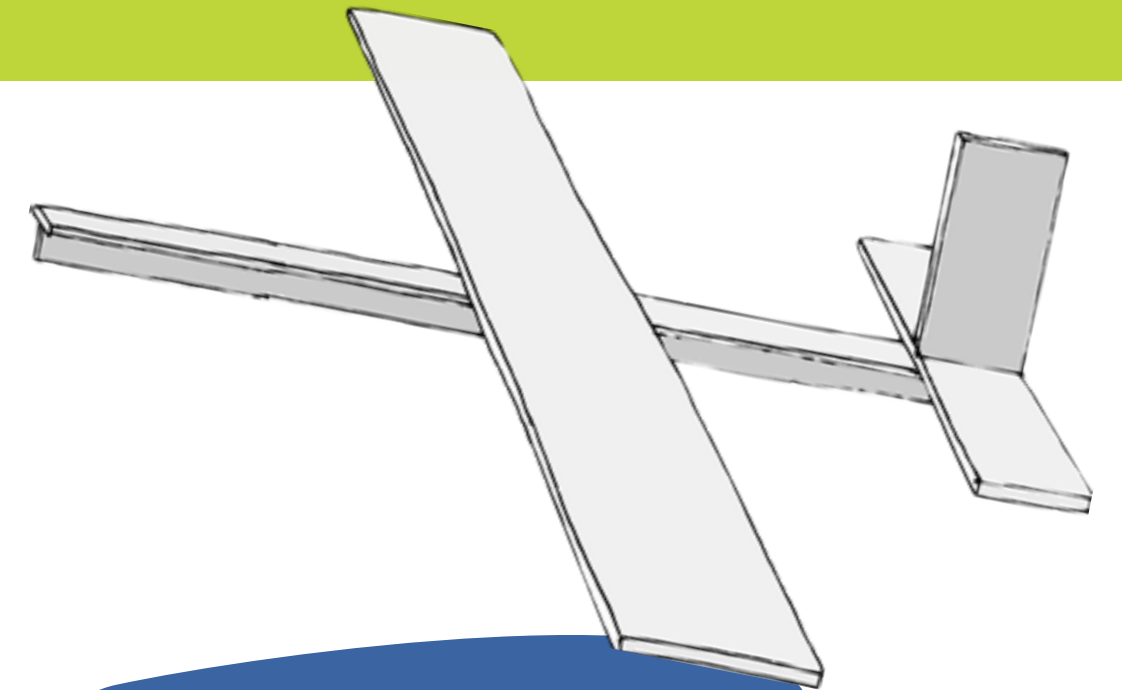


**What is the best material to use for a glider wing?**

# What is the best material to use for a glider wing?



This is a **comparative test**. You are changing **one** thing whilst trying to keep everything else the same.



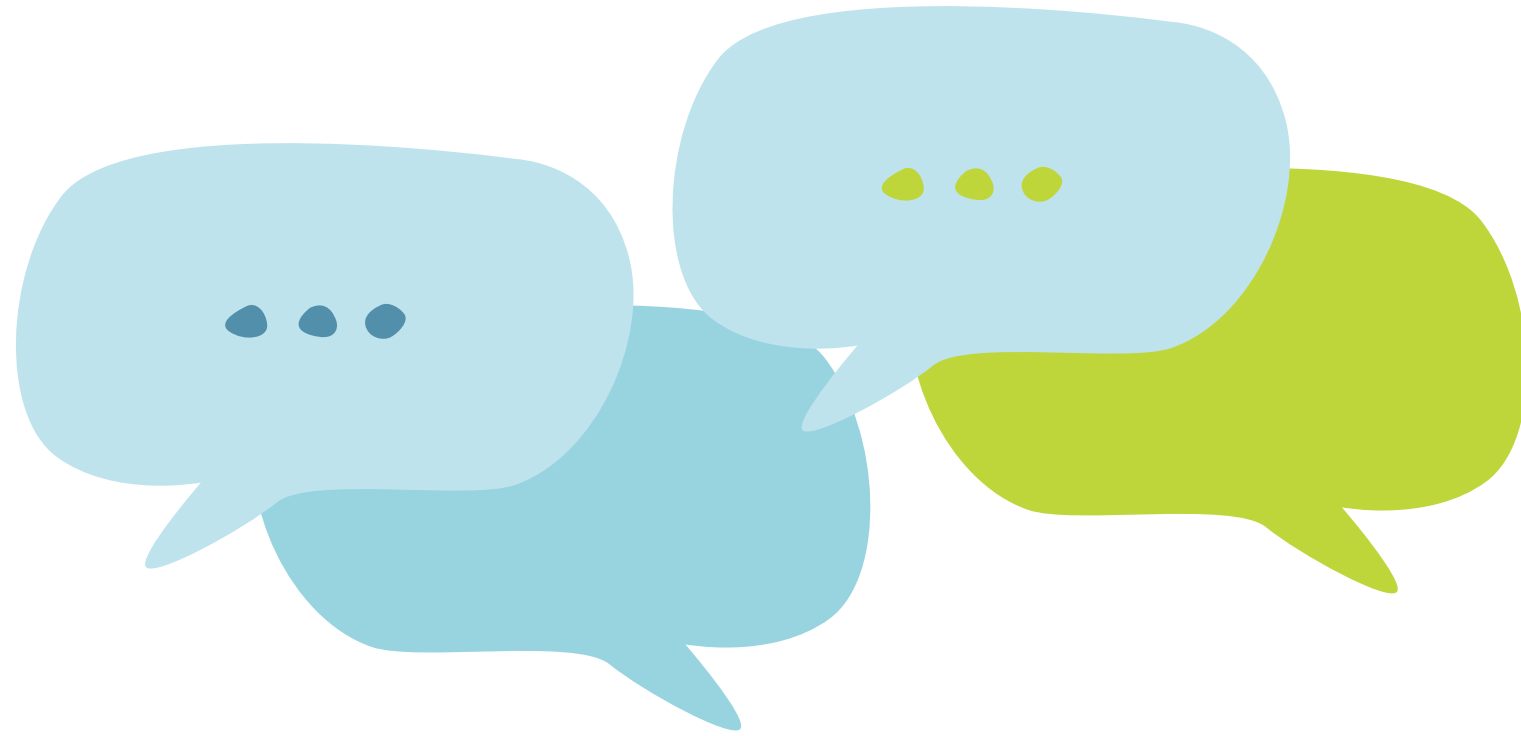
What are we changing?

What are we keeping the same?

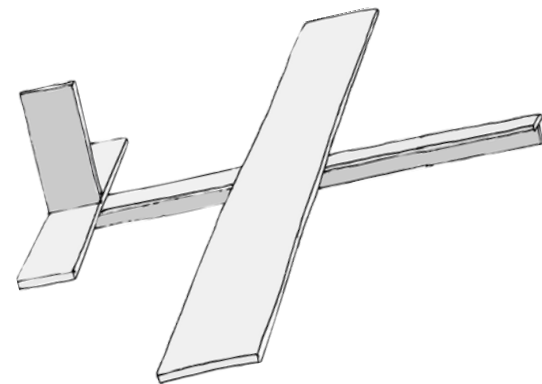
What are we measuring?



# Think about the properties of materials to make the best wing



**We think...**  
will make the best  
wing for the glider  
**because...**



What scientific vocabulary will you use?

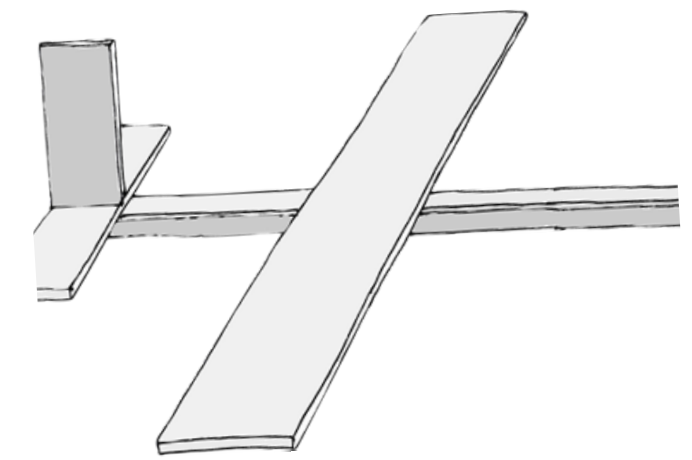
hard                      soft  
flexible                rigid  
bendy                stiff                stretchy  
shiny                dull  
rough                smooth  
waterproof                absorbent





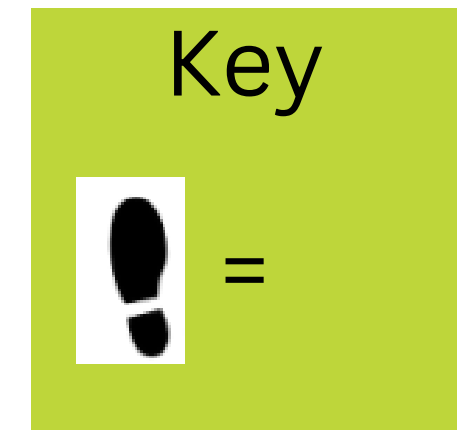
# How will we measure how far the glider travels?

Wing material	Distance travelled



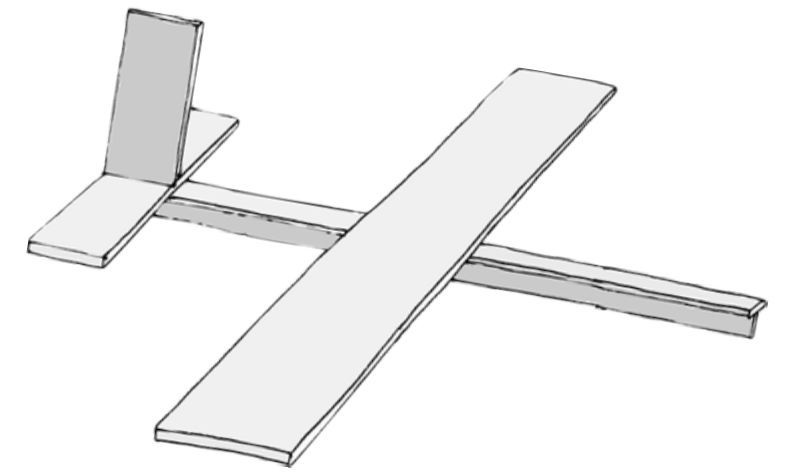
A pictogram to show.....

Material	Measurement





A block chart to show.....



Measurement

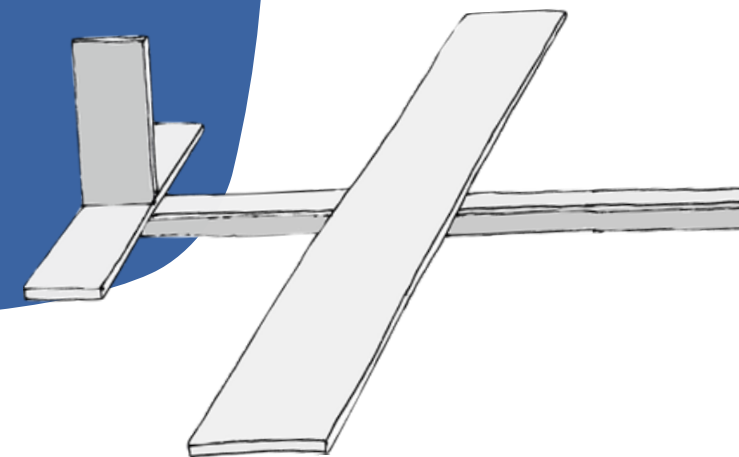


Material



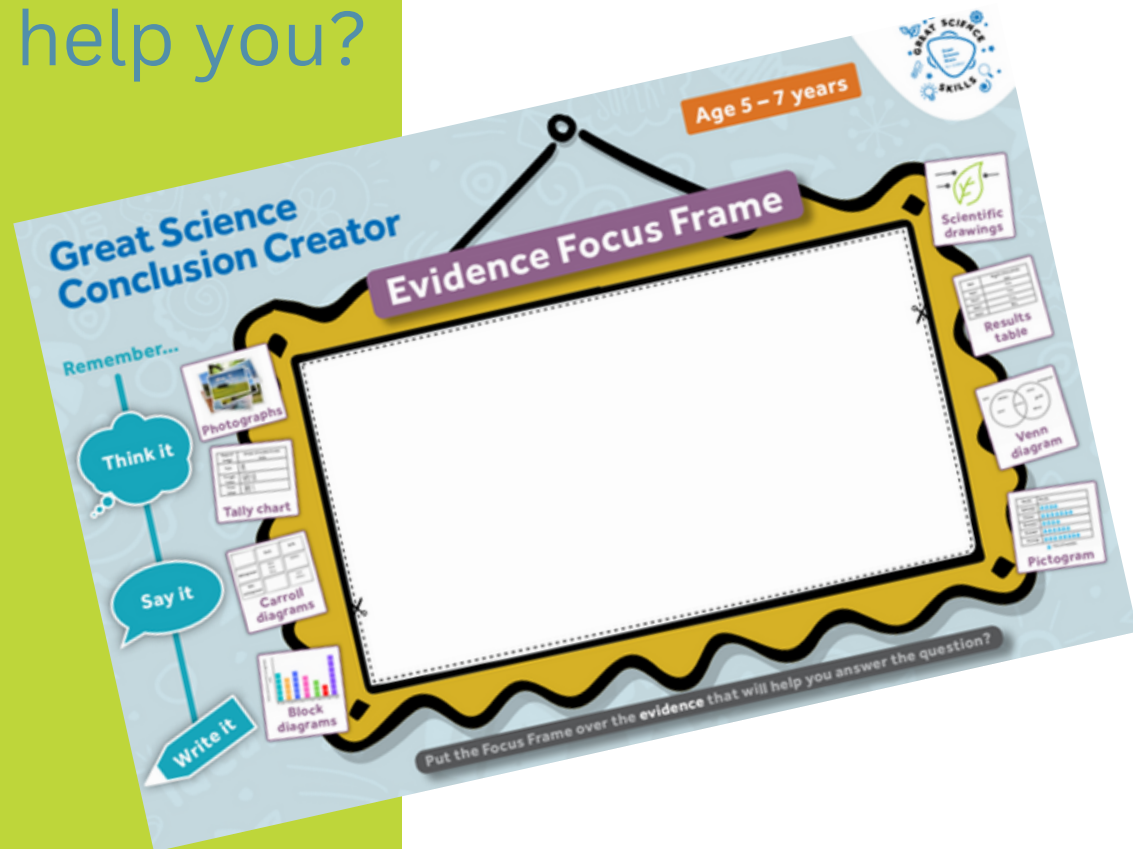
# We are ready to draw our conclusions.

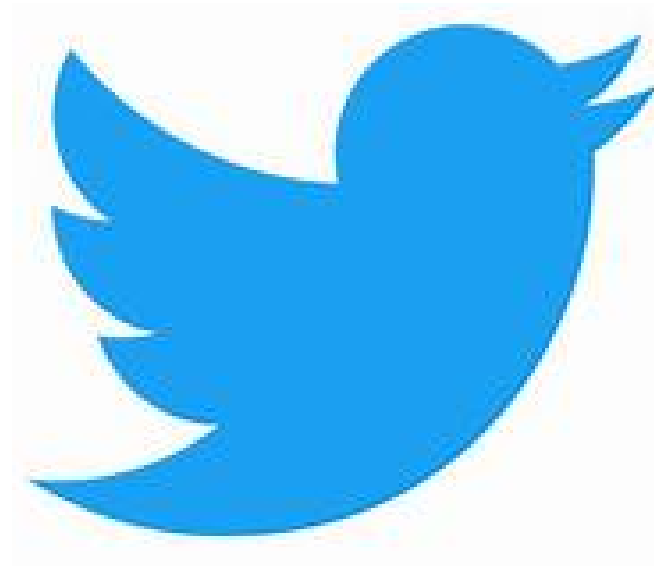
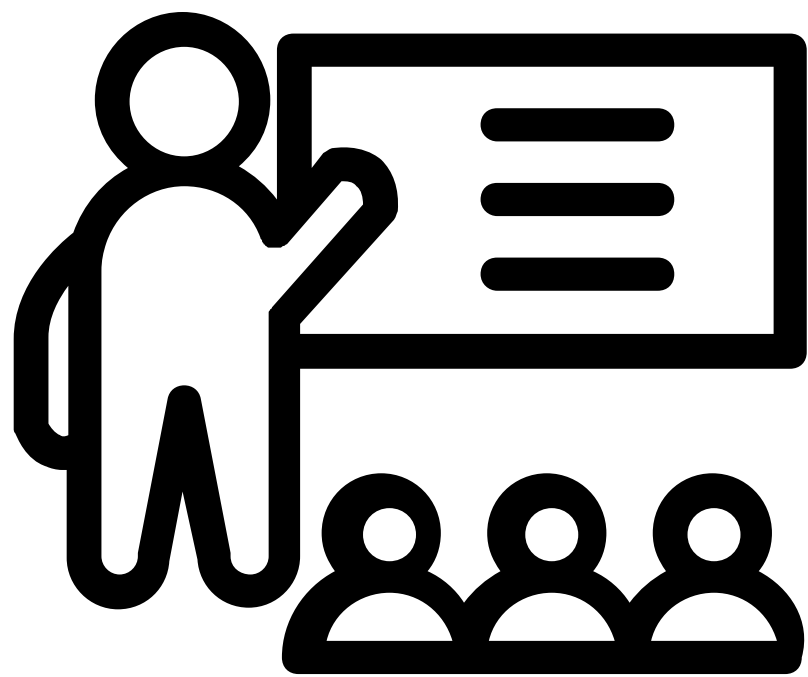
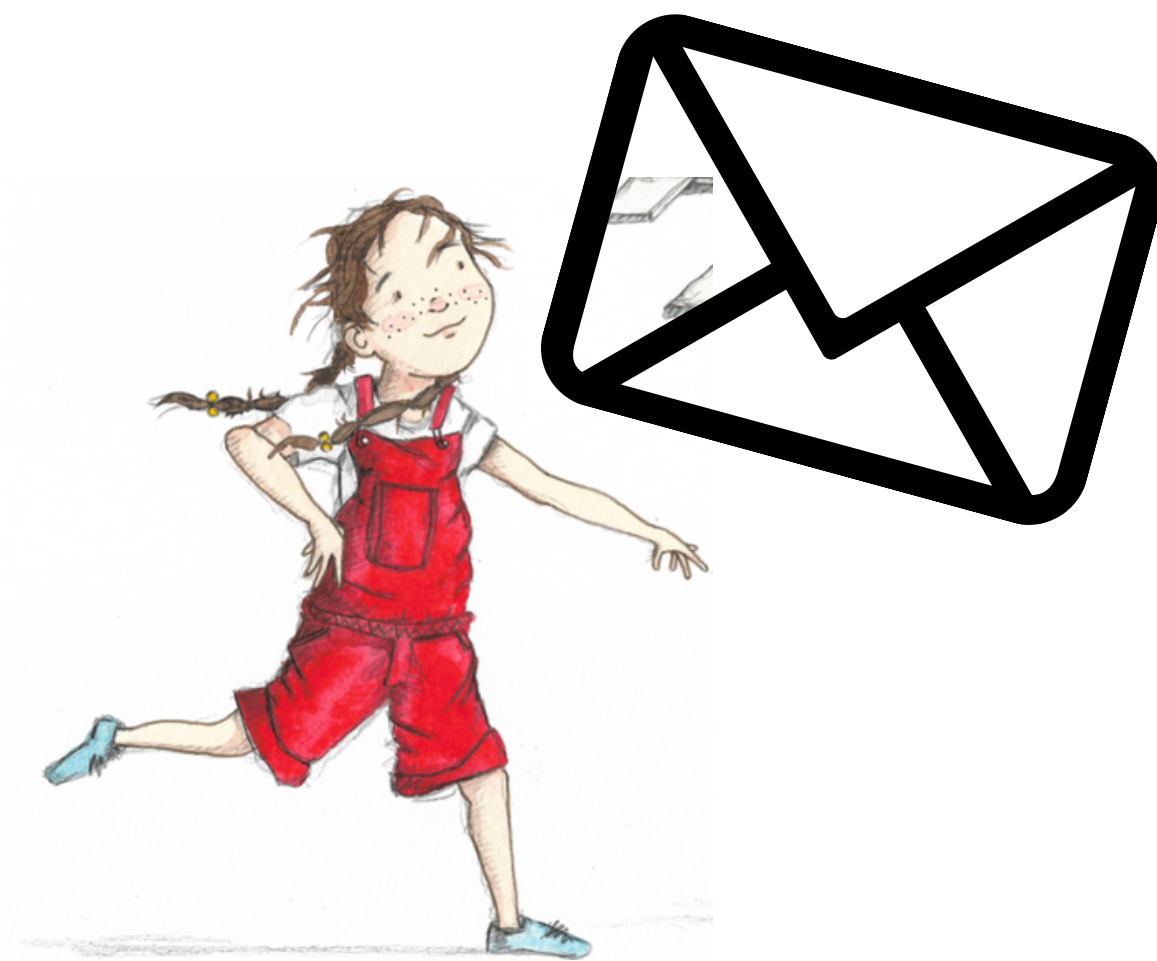
What is the best material to use for a glider wing?



We have found out that...  
We think this because we observed...  
Our measurements show this because...

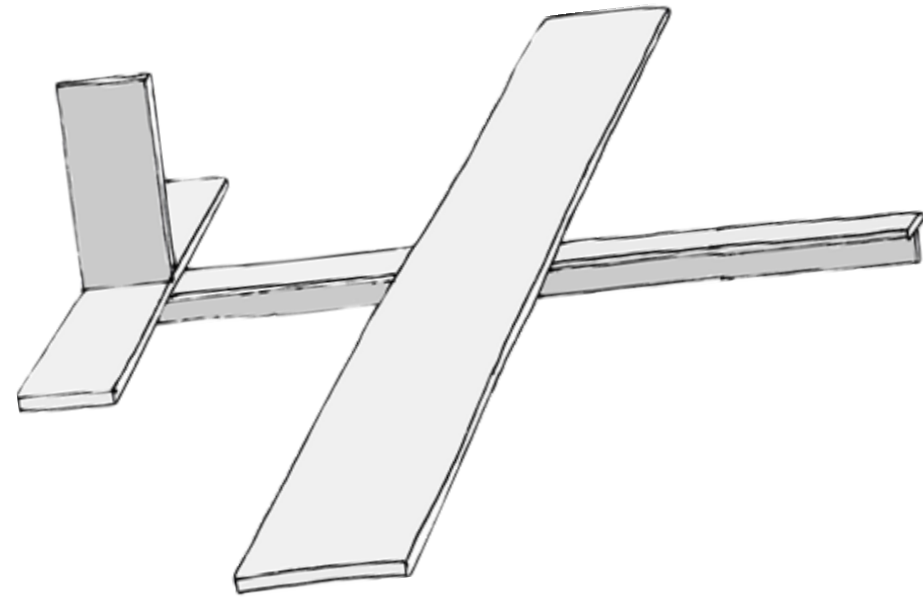
Can the Conclusion Creator help you?



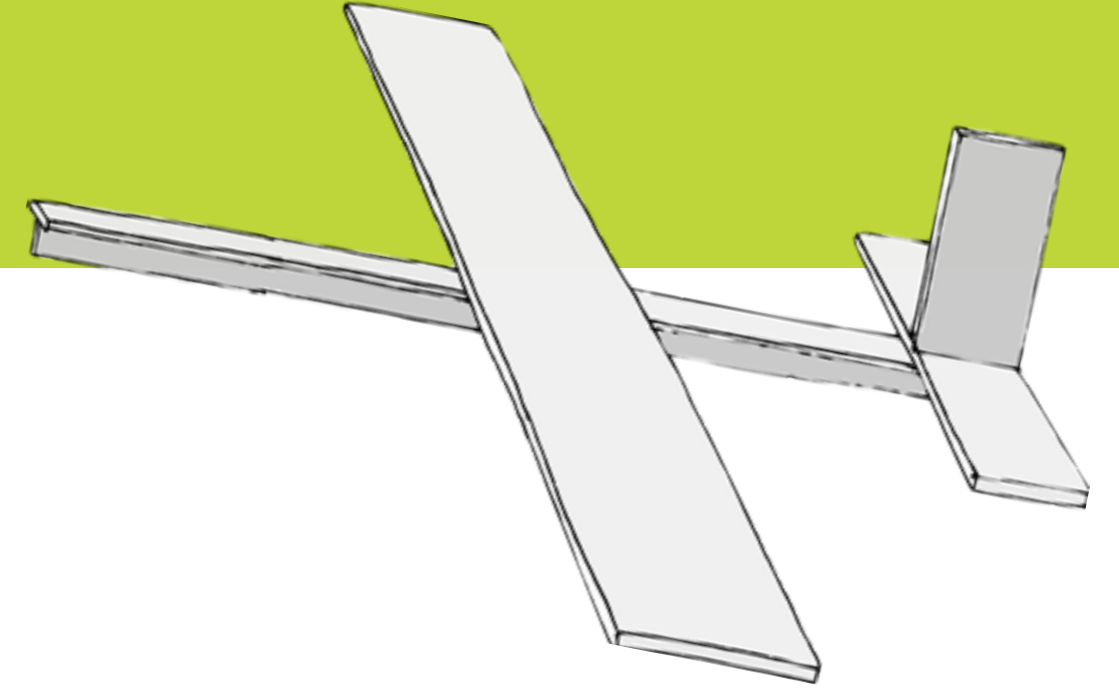




**Questioning**



# Glossary



## **Comparative test**

where one variable is changed to see how it affects the results

## **Flight**

the action or process of flying through the air

## **Reliable**

able to be trusted

## **Engineer**

a person who designs, builds, or maintains engines, machines, or structures

## **Glider**

a light aircraft that is designed to fly without using an engine

## **Variable**

what can be controlled or changed

## **Wing**

a rigid horizontal structure that projects from both sides of an aircraft and supports it in the air.

# With special thanks to The Ogden Trust, The University of Manchester and Fox Creatives



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