

Design and Make a Toy Transporter

The Challenge

You need to build a Toy Transporter to protect and store your favourite toy. The toy transporter may be needed for moving house, to bring the toy to a friend's house, on holidays or to the park to play with. It could even be designed to protect our toy from the slobbery clutches of your baby brother, sister or pet!

*All design and make activities should include **success criteria**. These should be **co-constructed** with pupils and be available to them to refer to as they design and make.*

Suggested Criteria:

- Specific size
- Specific materials
- Must have specific sections or compartments
- It must be able to withstand a fall from a 1 metre height
- It must be waterproof

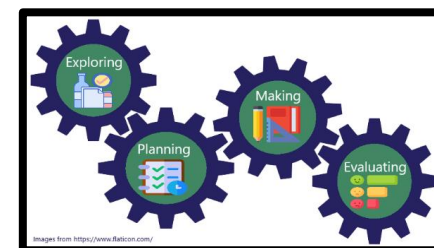


Timeframe:

- Give a timeframe to complete the project within to help develop self-management skills during independent learning.

Extensions:

- Apply a budget. Ask pupils to budget the overall cost of the toy transporter design.
- Use materials from the local natural world (e.g. leaves, sticks, stones)
- Integrate recyclable material into the toy transporter. What will you use and why?
- Integrate digital technology. Use Sketch Up to digitally create 3D designs.
- Drama: Create an advertisement for TV/Radio to promote the use of the toy transporter
- Writing/Drama: Narrative/Recount writing of "The Missing Toy Transporter"



Simpler versions:

- Include colour/shape/ patterns on the toy transporter
- Include two shapes in your design.
- Can you make the toy transporter float?

Resources:

The Little Inventors website is an excellent resource that includes examples of ideas and creations from pupils of all ages all over the world that could be used as inspiration. There are many free resources and challenges that can be used in the classroom and at home

<https://www.littleinventors.org/>

