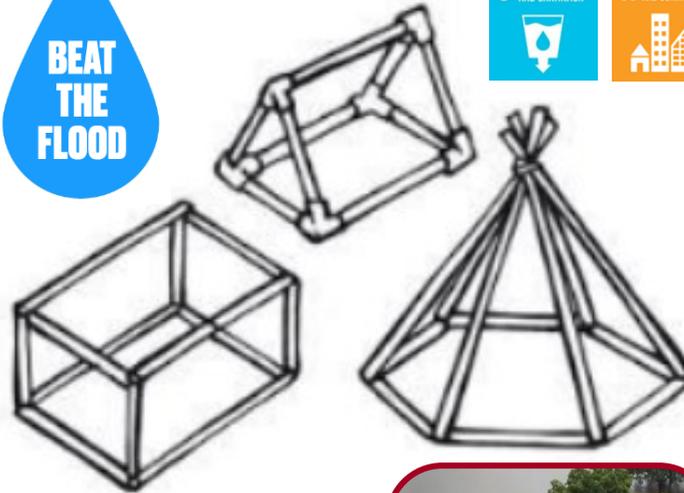


Sticky Knowledge:

- To know and name structures that use internal and external frames.
- To know what tension and compression are and how they support structures.
- To know that using different materials will produce a different effect/product.
- To know how the functional properties of materials inform design choices.
- To know how to strengthen, stiffen and reinforce complex structures

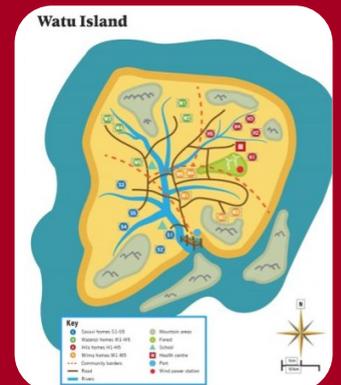


Cost and design using a variety of materials



Glossary:

- **Reinforce**—the action or process of strengthening something
- **Triangulation**—an engineering practise of forming rigid triangles to add stability.
- **Stability**—the state of being steady and stable
- **Compression**—the act or process of squashing something
- **Tension**—the state of being stretched tight
- **Join**— a way of linking or connecting something
- **Strut**—a rod or bar forming part of a framework



 Polythene Roll Cost: £5 per roll (10m x 1m)	 Concrete Cost: £10 per sack covering 15m ²	 Polyurethane sheet Cost: £40 per sheet (10m x 2m)	 Steel Cost: £50 per sheet (2m x 3m)
 Bamboo Cost: £1 per 1m cane	 Softwood Cost: £2 per 1m length	 Dung/Soil/Ash/Sand Cost: Free	 Glass Cost: £30 per sheet (2m x 1m)



THE GLOBAL GOALS
For Sustainable Development

