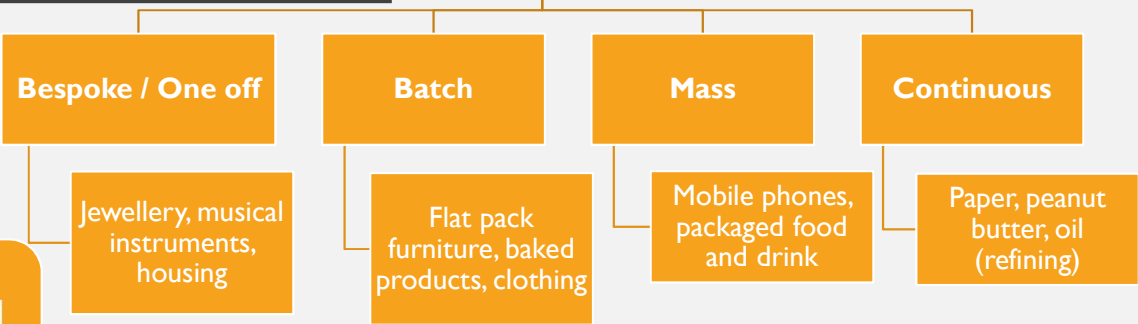


YEAR 7 – TINY HOUSE

Design specifications -
Used for: describing all the features/relevant information the designer must consider when designing a product or service
Structure: often uses the ACCESSFM acronym to structure

User-centred design – focuses upon the needs and wants of a specific user or group

Scales of manufacturing



- A** is for **Aesthetics**
- C** is for **Cost**
- C** is for **Customer**
- E** is for **Environment**
- S** is for **Size**
- S** is for **Safety**
- F** is for **Function**
- M** is for **Material**

How do designers gather information and data?

Techniques

Questionnaire/
Survey

User interview

Product Trials

Existing Product analysis

What are paper based materials?

Paper based materials are normally thin sheet materials made from the pulp of trees (cellulose)

- Corrugated Card
- Copier Paper
- Foam Core
- Tracing Paper
- Grey board
- Carton board

How do designers trial their ideas?

Modelling

Card Modelling

CAD Modelling

Block Modelling

Breadboard modelling (electronics)

WHAT IS SUSTAINABILITY?

Sustainability is a societal goal that broadly aims for humans to safely co-exist on planet Earth over a long time.



How can housing be made more sustainable?



How do designers calculate the cost of finishes?

Cost = area x cost of finish
E.g. Living room floor x cost of wood planks
 $3m^2 \times \pounds 25/m^2 = \pounds 75$

Square
 $A = a^2$

Rectangle
 $A = l \times w$

Circle
 $A = \pi r^2$

Triangle
 $A = 1/2bh$

Parallelogram
 $A = b \times h$

Trapezoid
 $A = 1/2(a + b)h$