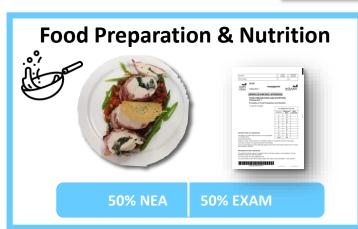
Year















- How to use CAD/CAM
- Microbit programming Skills in 2D Design program
- Using 3D design software to realise

## **E-Keyring**



- Existing products and alternative power sources
- Designing and modelling design
- $\label{thm:continuous} \mbox{Hand stitching electrical circuits}$
- Research advances in modern technology materials

# **Candle Holder**



- Research metals and their
- properties
- Product design
- Use of hand and machine tools Developing skills working with

#### **File Box**



- Study of design er
- Drawing technique Working with nets
- Knowledge of Vinyl cutting and its

### **Street Food**



- Research proteins, and micro-
- The impacts of food production
- Develop appreciation for cultural
- Final street food practical task



# Global Challenge



- Understanding user needs Researching environmental
- issues and inclusive design Design ideas around a context
- Prototyping and modelling idea



- Understanding synthetic fibres and their sources
- Safe use of the sewing machine
- Analysis of existing products Pinning, sewing and cutting skills

## **Phone Holder**



- Knowledge of types of woods
- Use of hand tools
- User centered design
  Use of marking out equipment

### **Model House**



- Research of paper and board
- Working to mathematical scale
- Safe use of craft knives Using hand tools accurately

## Portable lunch



- Research carbohydrates and sugars
- Understand cultural cuisines Make nutritionally balanced
- Final portable practical task





## Wildlife House



- Life cycle of a product
- Understanding the impacts of
- Use waste to produce a product
- The impacts of climate change

## **Monster Toy**



- Where do natural fibres come from?
- Safety requirements of soft toys Designing for a user
- Hand stitching, finishing products for safe use

# Visibadge



- Understand electrical circuits
- Use of strip heater and soldering
- Working to mathematical
- Record keeping as a production

## **Chocolate Box**



- Research existing products
- Designing for a theme
- Producing packaging graphics
- Use of vacuum former to create



- Safe use of kitchen equipment Understanding the providence
- of food miles Developing cooking skills
  Final breakfast practical task











Textiles **Innovation** 





