

# Y9 Take Away Homework Menu

## Starters

Complete a risk assessment on a task you complete at home (e.g. making a cup of tea). Include hazards and control measures as well as recommendations for completing the task safely.

Draw a product which you have at home, annotate the drawing and describe what you would do to make the product better.

Research products with moving parts (e.g. moving toys, cleaning utensils, sports equipment) create a research board and annotate designs to pick out the features you think work well.

Research the role of a design professional (e.g. designer/architect/engineer and create a work profile)

## Light Bites

Create a leaflet to teach someone about recycling.

Research why we need packaging and the different types of packaging available.

Come up with your own design for a product that uses mechanisms or electronics. (Use your research to back this up)

Research assembly drawings for self assembly products (e.g. flat pack furniture/ self assembly toys)

## Mains

Complete an analysis on some packaging at home. Describe the materials and whether they can be recycled.

Create an assembly drawing for a product which you have researched.

Research ergonomics and anthropometrics and create a leaflet/ poster/ video to explain to someone else.

Research three examples of similar products- discuss the advantages and disadvantages of each design and come up with a better version

## Super Size

Look at some examples of packaging for different products (food, toys etc.) Come up with a design which would be better for the environment.

Come up with a design for a new Lego series/ toy- to include moving parts. Research existing components to help you and create a drawing or model to show your design.

Design an app which could be used to help people in education in the future.

Research smart materials and create a material profile/ fact sheet (this could be a poster, PowerPoint or video)