AQA

**GCSE Design & Technology:**

**Resistant Materials Technology (45602)**

**Controlled Assessment Tasks and Guidance**

**FOR SUBMISSION IN SUMMER 2013 AND SUMMER 2014**

**AQA GCSE Resistant Materials Technology (45602)**

**Controlled Assessment Tasks**

**CONTEXT A (Leisure activities)**

**Leisure activities are increasing in popularity. Many garden centres and department stores now have areas specifically targeting this consumer area.**

**Design Task 1**

A garden centre wishes to sell products to encourage wildlife into domestic gardens. Design and make a small product that **could be sold in the garden centre**.

**Design Task 2**

The growth in leisure activities has been reflected in the availability of products to help with outdoor living. Whether this is camping or simply having a barbeque, the range of products is enormous. Design and make a **product suitable for the “Outdoor Living”** section of a large department store.

**Design task 3**

Sporting and musical activities are very popular. Many need specialised equipment. Design and make an accessory or **product for a sport or musical activity** of your choice.

**CONTEXT B (Environmental)**

**Designers have a responsibility to design products that demonstrate an awareness of environmental issues. Be inspired by the following word bank – Designing for sustainability, re-used and recycled materials and components, sustainable materials, energy efficient devices.**

**Design Task 4**

‘Eco Jewel’ is a company which supplies jewellery to people wishing to demonstrate their support for the environment. You have been asked to design a range of **jewellery using Eco as an inspirational theme**. Make up at least one item from your range. You are to design for manufacturing in quantity.

**Design Task 5**

A shop specialising in **sustainable products** wishes to extend its range. Design and make a product which could be **sold in the store**.

**Design Task 6**

A ‘green’ shop is looking to sell products made from factory **off-cuts and from materials and components recycled from pre-used products**. Design and make an example of a product that could be made from these materials or components, and determine how the new product might be recycled at the end of its life.

**CONTEXT C (Themed products)**

**Popular tourist attractions such as Wildlife Sanctuaries, Art Galleries, Animal Farms, Zoos, Theme Parks and Museums often have their own Shops attached. Themed products are always a popular feature.**

**Design Task 7**

A major design museum wishes to expand its range of products on sale in the museum shop. It wishes to sell popular products influenced by major design eras of the last 100 years. **Design and make a low-voltage light, radio, phone charging stand or ipod docking station** in the style of any design era of the last 100 years. You can use bought-in or recycled circuits, components or kits.

**Design Task 8**

Design and make a **small storage unit** influenced by any design era of the last 100 years.

**Design Task 9**

A major tourist attraction wishes to include themed, quality children’s toys. Design and make a themed **toy that incorporates moving parts** or removable parts to add interest.

**CONTEXT D (Organise)**

**Our lifestyles are changing rapidly. Our homes contain an ever-increasing range of gadgets and equipment. It is fashionable to have multi-functional living spaces. We need creative, innovative products to help us organise our lives.**

**Design Task 10**

People have an increasing number of gadgets and gizmos in their homes, such as mobile phones, ipods, remote controls, hand held computer games etc. Many of these products need chargers, memory cards, games etc. Design and make a **gadget tidy**.

**Design Task 11**

A major high street retailer wishes to market a **multi purpose**, modern style, small **coffee table** aimed at the first time buyer. The product could include some storage space. Design and make a coffee table for this target market.

**Design Task 12**

A manufacturer of **classic games** has recognised a gap in the market for a device that allows you to play games and store the parts in the same unit. The device could be used sitting at home, or on the move, e.g. in a car, plane or train. Design and make a **playing surface / storage unit** for playing games at home or on the move. Consider using CAD/CAM equipment and consider designing the product so that it can be **flat-packed**.