

Brief C

Materials Research Brief – Intelligent Disaster Aid Pack

Key Stage 4

Sponsored by the Institute of Materials, Minerals & Mining (IOM3)

Background

Throughout the world both natural and man-made disasters occur. This can come from extremes in weather, causing floods, mud slides and earthquakes resulting in the collapse of properties, roads and the very foundations of cities and towns. There are nearly always casualties who need immediate help and support. Extreme temperatures from heat to cold can also badly affect vulnerable groups of people.

Resume of the Brief

With the developments in new materials and in particular intelligent packaging materials, you are required to explore the potential of designing a piece of packaging and specifying the materials appropriate for a 'disaster situation'. You are to design a pack that contains a number of useful and appropriate products to help in a given situation.

You may choose to work in teams, pairs or as an individual. You are not required to produce a 3D mock up but you will need to show a 2D representation of the pack in the form of visuals, sketches, schematics, diagrams, photographs and or CAD programmes.

Prize

The Institute Of Materials, Minerals and Mining (IOM3) Award of £250 to the winning school whose entrants provide the most in-depth research project on a material and show innovative and considered thought in their choice of new pack specifications. IOM3 wish to acknowledge the individual commitment of the entrants and will also award a voucher of £25 to each of the winning participants.



Gold and the Institute of Materials, Minerals & Mining (IOM3) Sponsored Award

Olivia Thompson & Stephanie McMahon

“Excellent understanding of requirements, clear and concise presentation,
multi purpose, costings included. Excellent final pack solution”

Judges comments

“Excellent understanding of brief and good use of presentation boards.
Economics, viability and practical aspects considered”

Peter Davies, IOM3

St Swithun's School takes IOM3's sponsored award for the school





“Well thought through solution. Boards told a story of detailed research and progression of ideas. Well illustrated”

Judges comments



Silver
Louisa Warwick & Maeve O'Boyle
St Swithun's School

Bronze and Commended

1. Bronze - Beth Straw, Jessica Bartley and Manjeevan Grewal, Derby High School
2. Highly Commended - Katy Boyce and Lucy Ludlow, Derby High School

