

CASE STUDY

design for flight

EBP
NATIONAL NETWORK

L O N D O N R E G I O N

Theme: Design & Technology
EBP: CROYDEN EBP
Partners: Zotefoams plc
Students: Year 10 students of Edenham High Foundation School, Technology status

Aim

- The students to design and manufacture a product for the airline/travel industries
- The teachers wanted to make links with a local company who could provide materials and on-going support for the development of the products. Zotefoams plc is a company manufacturing high quality closed cell materials (foam) since 1936. The factory and Head Office are based in Croydon with 230 employees. The products have a variety of applications including health care, sports and leisure, packaging and marine industries. Zotefoams was the obvious choice with its manufacture of a material (plastazote foam) which is non-absorbent, buoyant in liquid, can be easily moulded by heating in an oven, easily cut with basic tools and easily embossed and painted to create a wide range of finishes. The company was happy to supply as much free material as the school would need.

Procedure

A training day was set up by the EBP for the teachers involved to learn about the properties of the material, research, marketing and customer base. The day provided useful information not only for DT but also for Science and Business Studies departments. Company CDs were provided as an excellent resource for students to refer to, as large numbers of students could not be accommodated for a visit.

Programme

The students created products for a child's goody bag on a long haul flight.

Outcomes

- The products manufactured included sleep masks and sun visors and some excellent designs were produced
- The students learnt a great deal about the different stages involved in the creation of a product including tooling, prototypes and batch manufacture
- The students worked in groups which improved their communication skills and their knowledge and understanding of concepts such as organisation, risk and innovation also increased a great deal
- The students became familiar with technical terminology and business language and learnt to be flexible as well as responsive to change.

Progression

The project is on going and the school intends to hold an exhibition where business partners will be invited to assess the products and processes. The preparation for the exhibition will in itself provide further excellent work related experience.

Given the success of the project, the school intends to replicate the project with future groups.

CASE STUDY

technology

EBP
NATIONAL NETWORK

L O N D O N R E G I O N

Theme: Design & Technology
EBP: ENFIELD EBP
Partners: Coca Cola
Students: Year 10 students of Edmonton County School

Aims

- To enhance the production and manufacturing module of the GCSE course and coursework which is an integral part of ALL technology syllabi
- To raise attainment by provided extended learning through practical experiences
- To provide a learning experience THROUGH, FOR and ABOUT working practices
- To provide a standalone curriculum package which can be shared with partner schools

Procedure

Teaching staff took part in a manufacturing placement at Coca Cola. Students visited Coca Cola following a briefing and were debriefed at the end of the visit.

Programme

- Incorporate relevant staff training utilising PDP allocated time for the in- service training of staff where linked to the school development plan
- Provide a half day experience of learning through, for, about work
- Provide curriculum opportunities of learning through, for, about work
- Be reviewed and updated by the department as necessary
- Discuss with local partner how as to how they can support the school in delivering the key modules
- Consider ways in which collaboration with other schools and colleges can support the support the school provision in line with technology status targets
- Actively involved the support of the Enfield EBP
- Link all activities in the on-going development of the school 14 – 19 provision

Outcomes

- Enhanced coursework leading to raising attainment
- Accessing higher level learning
- Accessing learning through, for and about work
- Production of a project package, paper based and online to share with partner schools
- Staff professional development

Progression

- Continue relevant PDPs within the department
- Continuous review of outcome to give clarity of provision for all students
- Expand business links and curriculum involvement
- Technology year 10 (all students) attend production module at coca cola annually
- Further expand students access to work related learning experiences, such as design, health and safety, environment
- Link progress files to record work related learning and enterprise opportunities
- To produce a project package, paper based and online to share with partner schools