EVALUATION EXERCISE

PLACE PRODUCT PHOTOGRAPH HERE

FUNCTIONS

AESTHETICS

PRODUCT LIFE-CYCLE

HELPFUL LINK - http://www.technologystudent.com/despro_flsh/iterative5.html

ERGONOMICS

MEETING CLIENT NEEDS

MATERIALS/MANUFACTURE

ESTIMATED COST

HELPFUL LINK - http://www.technologystudent.com/despro_flsh/iterative5.html

HEALTH AND SAFETY

RECYCLABILITY

SUSTAINABILITY

POTENTIAL IMPROVEMENTS

EVALUATION EXERCISE

FUNCTIONS

Disposable spoon, knife and fork.

For use when eating on the move.

Designed to fit a common pen.

Carried in the user's pocket.

For use in a roadside cafe.

AESTHETICS

Plain design but unusual.

Follows the traditional design of everyday cutlery.

The 'blue' colour scheme reflects common pen tops.

Uninspiring.

PRODUCT LIFE-CYCLE

A disposable product, designed to be used once and thrown away.

There is potential to develop the product, as part of a closed loop recycling system.

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ERGONOMICS

Designed to fit the average adult mouth.

Fits a typical pen, which is not ergonomically designed, for use as cutlery.

MEETING CLIENT NEEDS

The client could be a student, a camper / hiker and in fact anyone who eats on the move.

Café owners may purchase the product, as alternative cheap, disposal cutlery.

MATERIALS/MANUFACTURE

Manufactured from polystyrene through 'compression moulding'

Injection moulding is another suitable industrial process.

ESTIMATED COST

Estimated cost of manufacture is £20 per 200 sets. After packaging, the cost to the customer is £1.30 per set.

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HEALTH AND SAFETY

An hygienic product, if taken directly from the package and used.

Carries the same safety risks as typical disposable cutlery.

Washable.

RECYCLABILITY

Currently not recyclable, due to difficulties with sorting, collection and reprocessing, after use.

Could be recycled, if the user disposes the product in a recycle bin.

SUSTAINABILITY

Polystyrene can be recycled, which means this product could be part of a closed loop system.

Currently, the product is not sustainable, as it is not collected and reprocessed / recycled.

POTENTIAL IMPROVEMENTS

Change the material to a bio-degradable material, such as Biopol or Polylactide.

Manufacture the product in a range of colours, not just standard blue.

EVALUATION EXERCISE

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