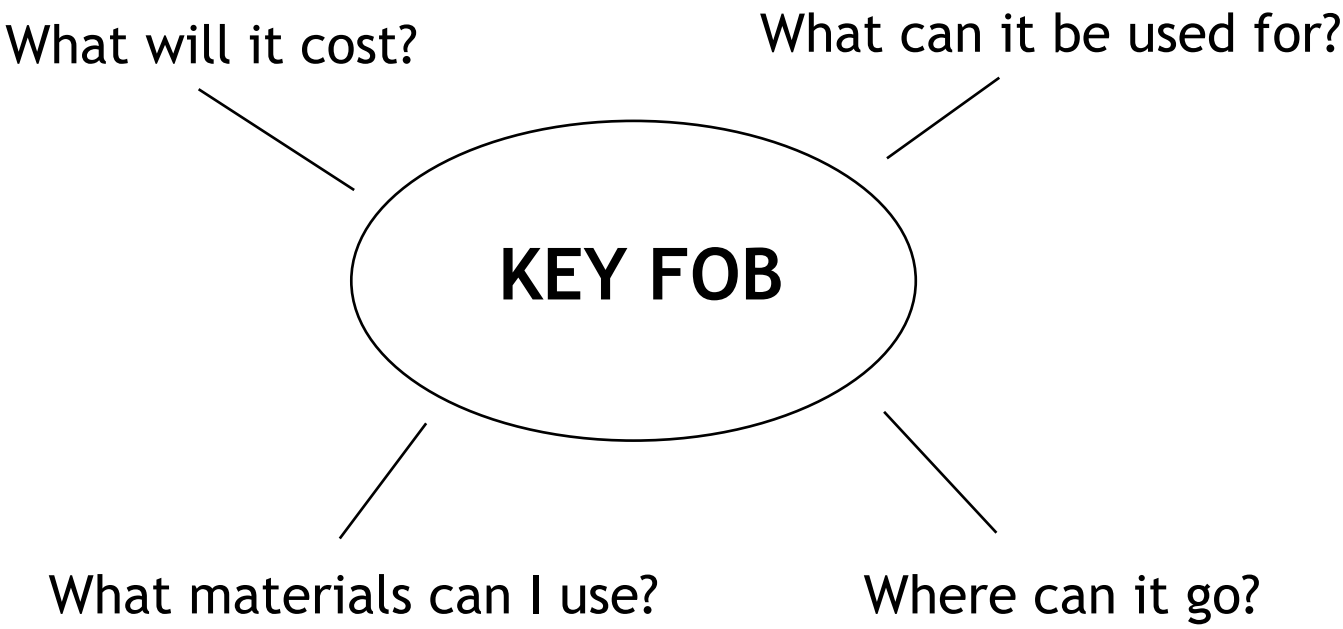
DESIGN BRIEF

I have been asked by a client to design and manufacture a key fob to put a key on. This can be used as a unique identification tag for a key for the house, garage, car, or any other type of key.

RESEASRCH



Find out the different properties of plastic.

Where does plastic come from?

What are the two main types of plastic?

Note down all your research before going onto design your product.

SPECIFICATIONS

MATERIAL	The product will be made from ACRYLIC PLASTIC
FINISH	The plastic will have polished edges.
ERGONOMICS	It will be held comfortably in my hand
SHAPE	The shape of the key fob will be a simple shape to make and cut out.
AESTHETICS	the model design will be made in an attractive colour and will be big enough to fit into a pocket or attach to a bag.
ENVIRONMENT	It will be located in my school bag or pocket.
FUNCTION	The key fob will be able to hold keys and be easily identified by the owner
SAFETY	It will have no sharp edges to damage clothes or bag

DESIGN IDEAS

In your jotter use the idea generation techniques of “taking the pencil for a walk” and “brainstorming.”

Record all ideas in your jotter.

Make models of your design and comment on wether or not it fulfils the specifications.

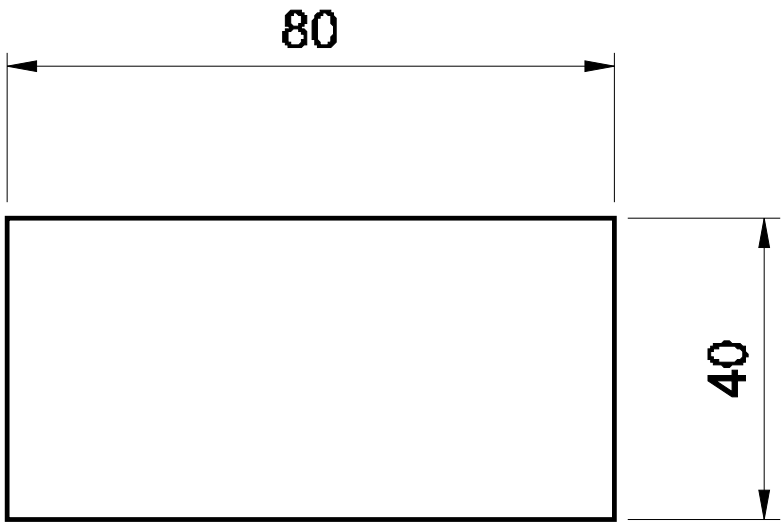
Change your design at this stage if it you do not like your model by altering the shape and sizes.

At this sage note basic sizes of your product.

Glue all ideas into your jotter. Do not rule any idea out at this stage.

SOLUTION

DIMENSIONING to British Standards (B.S.)



For your solution you need to draw out what your shape to the actual size. This is called the solution drawing. This can be done using the computer CAD program or be drawn out using a ruler and pencil.

1. Draw a rectangle to the same size of your model.
2. Dimension your solution.

EVALUATION

To write up the evaluation of the product you will have to make up a **questionnaire** to ask you peers. Make up 5 good questions or more about your finished product. This can be done as group work.

Try to ask questions that compare your product against the specifications.

Produce the questions either by using ICT equipment or by writing them out neatly.

Now give your questionnaire to 10 people and ask them to fill in the form.

Make a note of how your design be improved? Draw out your changes.

Test the product for its intended use.

From your questionnaire write up an EVALUATION of your product.

Here is an example of a question. **1 poor - 5 excellent**

1. Are the edges well polished? **1. 2. 3. 4. 5.**