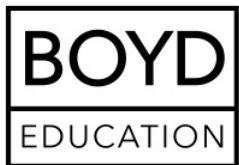


#ThinkDo Cards

Products

By Paul & Julie Boyd

This resource will be updated and developed over time. If you have received this resource before it may be worth replacing your file with the more up to date version.



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#ThinkDo Resources



- This resource supports the content of some of our courses. See more about our courses at <http://www.julieboyd.co.uk/workshops-2/calendar/>
- #ThinkDo cards are designed as structured retrieval activities and can be used as general classroom activities, homeworks, extension activities or as low stakes tests. They can also be used for display.
- The #ThinkDo cards are mapped against our 10 Key Learning Areas in D&T document which can be found at <http://www.julieboyd.co.uk/dt/dt-curriculum-planning/10-key-learning-areas/>. Over time our long-term goal is to produce at least one card that references learning from this document.
- The cards have an image and a series of questions designed to prompt learners to think more deeply about D&T, whether it be from the perspective of an exam, the non exam assessment, or simply to encourage a wider interest in design generally.
- The slides can be printed and used as A4 worksheets or they can be trimmed to the size of the cards. Changing the settings on the printer also means the size of the resource can be changed e.g. to print 4 cards onto an A4 page. The A4 slides could be laminated to create a reusable resources with learners writing around the card using dry erase markers.
- New #ThinkDo cards are produced all the time linked to a variety of KS3, 4 and 5 learning areas. Free Jpeg #ThinkDo cards are given away each week on our Facebook page (www.facebook.com/julieboydonline) and are also posted on our blog at <https://goo.gl/1lwCVi>.

#ThinkDo

Dishwashing brushes



What materials have been used?

What key features might a consumer be looking for?

What are the good & bad points about the design of the product?

How does this product compare to others that are available?

Why have humorous designs be used?

How might the product have a different use to what it has been designed for?



#ThinkDo

Who might use this product?

Good or bad design? Justify your answer

What other innovative ways can you think of for storing colouring pencils?

What else could a CD box be used for?

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#ThinkDo



What textiles techniques have been used on this t-shirt?

What materials might have been used and why?

What components have been used?

How would you develop the design further?

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#ThinkDo

Write a design specification for this computer mouse

Summarise the advantages to the consumer of a wireless mouse as compared to a wired mouse

The mouse has been ergonomically designed. What does this mean? How will this impact on the design of the mouse?

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#ThinkDo

The label says this dog toy is made from chew resistant material. What material might this be?

What key features might a consumer be looking for when choosing a dog toy?

How does this product compare to others that are available?

How might the product have a different use to what it has been designed for?



How might this product be developed further?



#ThinkDo

The Dyson Supersonic hairdryer

Visit <http://www.dyson.co.uk/haircare/supersonic.aspx> to find out more about the hairdryer

The hairdryer costs £300. How would Dyson justify the cost of the product?

What are the arguments for & against the hairdryer being value for money?

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#ThinkDo

Upcycled chair with denim covering the original ABS seat.

The design includes contrasting top stitching which is often found in denim products. What other design features are often associated with items made out of denim?

What would you design?

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#ThinkDo

What user needs does the product meet?

What materials & processes have been used?

What key features might a consumer look for?

What are the good and bad points of the design?

How might elements of the design inspire a new product?

How might the product be developed further?

What broader impact does the design and manufacture of the product have?



#ThinkDo



Flat pack box made from a non woven textiles material.

Describe what a non woven textiles material is and how it is made.

What are the advantages and disadvantages of flat pack products.

What other products might come as a flat pack?

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#ThinkDo

Storage for your stapler & staples

What quirky storage solutions would you design for storing other types of stationary & office equipment?

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#ThinkDo

Describe the types of seams you often find on jeans?

What are other common design features that you find on jeans?

Jeans are usually made out of denim fabric. Describe the appearance & properties of denim.

Find out more about jeans at www.historyofjeans.com

www.julieboyd.co.uk



#ThinkDo

Find out more about how Trunki was developed at www.trunki.co.uk

How can the Trunki design be developed further?

What travel accessories could be designed to go with the Trunki?

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#ThinkDo

What might have influenced the design of this product?

What techniques are used?

What would you do to develop the design further?

What would you design to coordinate with this product?

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#ThinkDo



What textiles techniques have been used on this body warmer?

What materials might have been used and why?

What components have been used?

How would you develop the design further?



#ThinkDo

Temperature probe

Why is this useful when making food products?

What foods might it particularly be used for?

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#ThinkDo

Name the textiles techniques used to make the hat

Who will the hat appeal to?

The ears pop up when the pump in the tassel is pressed. How could you create this type of interactive hat yourself?

How would you develop the hat design further?

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#ThinkDo

Face masks



What is the purpose of these products?

Who might a typical user be?

Why is a non woven textile used for part of the face mask?

What other materials might also be used on the face mask?

The face masks have a CE mark on them. What does this mean?





#ThinkDo

Why might people buy this t.shirt?

Is it good or bad design?

What would you do to improve or develop the design?

What other products would you design?

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#ThinkDo

Why does a designer brand add value in the eyes of the consumer?

The shirt is made out of polyester cotton fabric.

What are the properties of this fabric that make it suitable for the shirt?

What key features might a consumer be looking for when buying a man's shirt?

What broader impact does the design & manufacture of the shirt have?

Ted Baker Men's Shirt





#ThinkDo

What is the name of this style of sleeve?

What are the advantages of this type of sleeve?

What other sleeve styles can you name?

What product would you design with this type of sleeve?

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Comparing Products



#ThinkDo

Product Development: Bic Biro

Traditional Bic Biro & a new Bic Stylus Biro:
a contemporary twist on a traditional product
to meet the needs of a different generation.

Find out about how Bic biros are made
<http://goo.gl/xVP8Oy>

How else would you develop the Bic biro?

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#ThinkDo

What are the advantages & disadvantages of the different can openers in the photos?

Choose 2 can openers and compare them to each other e.g. materials, functionality, ease of use, ergonomics, features.

Collect images or photos of different can openers. What do you think is the best design & why?

What common everyday object would you improve & develop?

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#ThinkDo

Compare these extension leads

What are the advantages & disadvantages of the design of each extension lead?

How might you improve the design of each of the leads?

How would you completely rethink extension leads to improve their design & ease of use?

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#ThinkDo



Compare the different types of fan that are available. What are their key features?

What are the advantages & disadvantages of each type of fan design?

What key features might a consumer be looking for when purchasing a fan?

How would you redesign & rethink the design of fans?



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#ThinkDo



Kitchen bins come in a range of shapes, sizes & materials, with a variety of features e.g. anti bacterial finishes, sensors, compactors, aroma filters, & compartments for recycling.

How do features such as the ones mentioned above add value to a bin in the eyes of a consumer?

The cream bin in the centre of the image above is designed to look different to traditional bins, almost like a piece of furniture. How would you rethink the design of a bin?





#ThinkDo

How many different types of lemon squeezer can you find?

Compare their design features & materials.

Which one functions the best & why?

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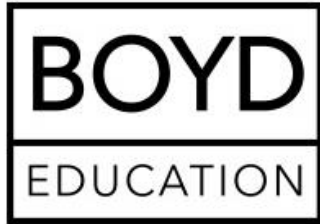
#ThinkDo

These toothbrushes all sell at different price points, from the cheapest on the left to the most expensive on the right. Compare the toothbrushes to each other. Think about the target market for each one, the materials use, the design features, as well as any specialist technology.

What design considerations need to be taken into account when designing a toothbrush?

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