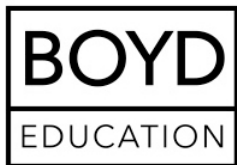


#ThinkDo Cards

Designing

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>.

Inspiration From All Around Us



#ThinkDo

What do these images make you think of?

How might the images inspire pattern, colour, shape & texture in a design or product?

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#ThinkDo

Cheerios box game

The game teaches how the cereal gets from the field to the breakfast table & uses the coloured pieces of Cheerios as counters.

How would you use this idea to inspire a game to show how a product is made or how a material gets from its source to the final end material?

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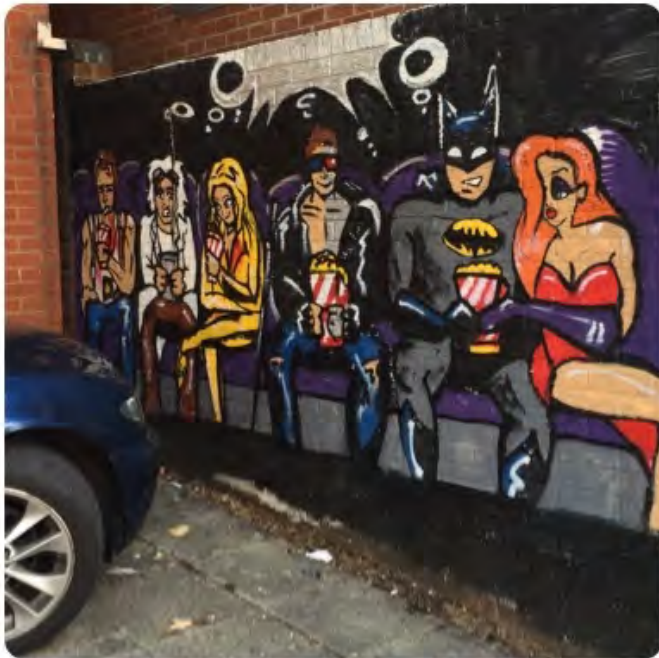


#ThinkDo

Doritos Roulette: most of the Doritos in this bag are cheese flavoured but a handful are hot chilli flavour to take you by surprise!

How does this idea inspire a product design of your own?

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#ThinkDo

Graffiti: Vandalism or inspiring art work? What's your opinion?

How would you use graffiti art as inspiration?

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#ThinkDo

Halloween inspired
merchandise

What would you design?

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#ThinkDo

What do these images make you think of?

How might the images inspire pattern, colour, shape & texture in a design or product?



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#ThinkDo

Indian inspired products in Paperchase

What traditional design features, patterns, motif & colours might be associated with India?

What would you design?

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#ThinkDo

What do these images make you think of?

How might the images inspire pattern, colour, shape, & texture in a design or product?

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#ThinkDo

How do the everyday things
around you inspire your designs?

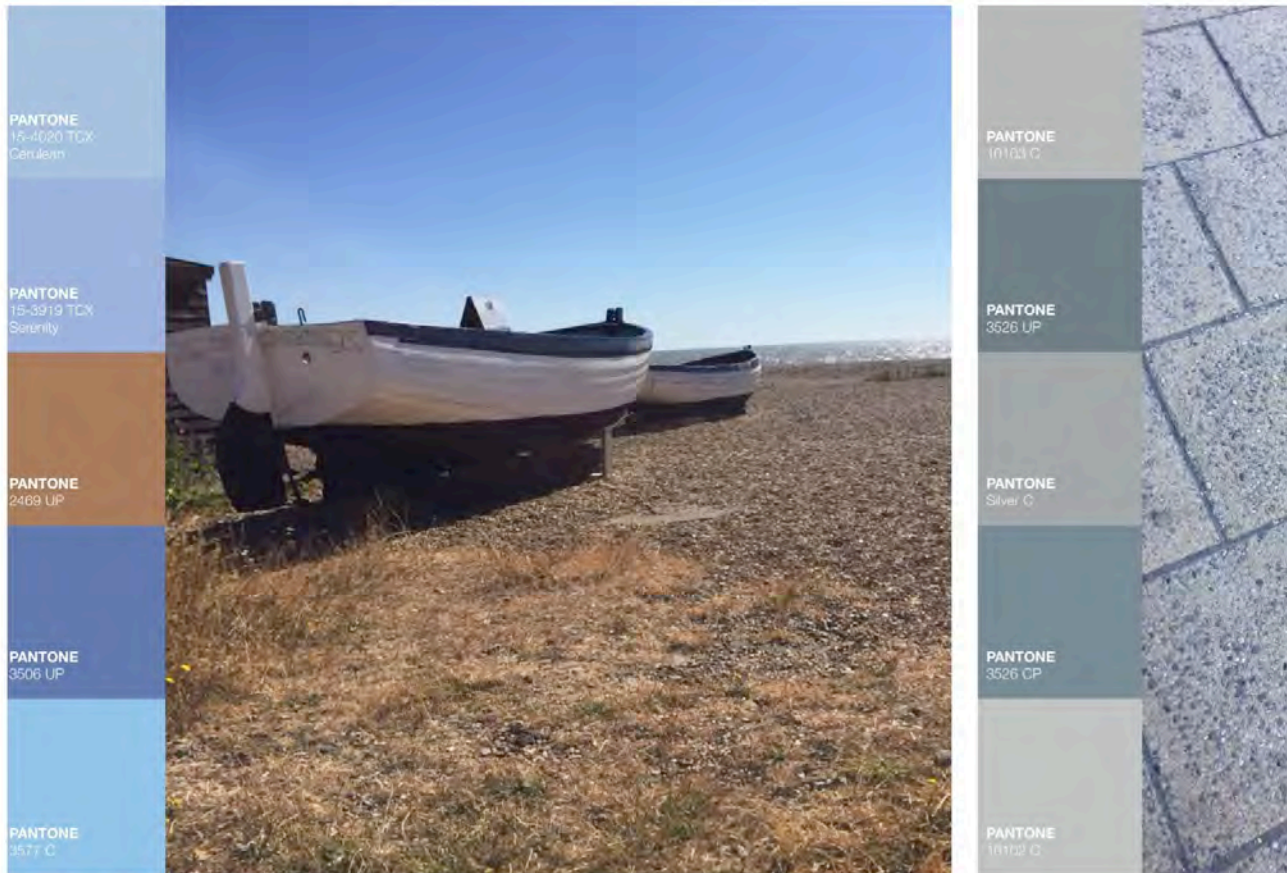
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#ThinkDo

This packaging for charging cables and adaptors is inspired by a play on words for the meaning of the word 'juice'.

How could you use this idea to inspire a design for a product or for packaging?



#ThinkDo

The Pantone Studio App allows designers to create colour schemes from everyday scenes (some sections of the App are free to use, find out more at www.pantone.com/studio).

Find out more about Pantone colours and how they are used by designers, including the Pantone Colour of the Year, at www.pantone.com

Create your own colour schemes from everyday scenes and objects around you. You can do this by downloading the App or by using a variety of other media such as paints and fabrics.

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#ThinkDo

What do these images make you think of?

How might the images inspire pattern, colour, shape & texture in a design or product?

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#ThinkDo

What shapes and patterns do you see?

How might the images inspire pattern, shape, colour, texture in a design or product?

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#ThinkDo

Yorkie 'man size' buttons:
a grown up version of the
sweets for young children

What product for children
would you adapt for an
older target market?

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#ThinkDo

'Dazzle' camouflage inspired products.

What is 'dazzle' camouflage?

How would you use it to inspire you?



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#ThinkDo #Inspiration

Products in the Imperial War Museum, London, that use dazzle camouflage patterns originally used to disguise ships during the First World War.

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Find out about dazzle at
<http://bbc.in/1IBPV5M>

How would you use
dazzle to inspire
products you design?



#ThinkDo

Iconic ingredients combined: Heinz tomato ketchup or HP brown sauce with a sausage roll.

Which one gets your vote?

What other iconic ingredients would you combine to make a new product?

What non food products would you combine to create a new product?

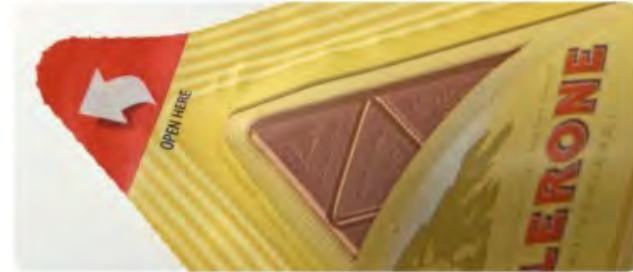
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#ThinkDo

What everyday product would you redesign to add a humorous twist?

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#ThinkDo

Developing an existing product

Flat Toblerone bar of chocolate

How does this compare to the traditional Toblerone design?

What existing product would you develop?

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#ThinkDo

Royal Mail 'Smiler' stamps that celebrate life events. They are sold separately as well as being available to customise with your own photo attached to the stamp.

What other life events could be celebrated?

What would the stamp design look like for these events?

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#ThinkDo Dr. Marten boots

How would you personalise a Dr. Marten boot to create an individual design?

Find out how Dr.Marten boots are made <http://goo.gl/ovlCie>

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Things to Think About When Designing



#ThinkDo

Describe the British Nightwear Standards and what safety points a product has to meet

Why has the retailer used these standards when producing fancy dress costumes even though the product isn't an item of nightwear?

What products other than nightwear also have to meet fire safety standards?

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#ThinkDo

What do these labels mean?

What types of products might you find them on?

These labels are part of BSI 5852. What does BSI stand for?

BSI use the Kitemark as a certification mark. What does this look like?

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Sit down, 66 times per day, for 5 years

To ensure safety and durability, nearly all IKEA products go through severe quality-tests according to international standards.

Office chairs in development are put through 5 different durability tests simulating a seated person moving in different directions. These tests, press the chair 260,000 times from 32kg up to 110kg each. Only if it withstands the pressure and still functions as well as before will it be approved.

Quality testing is part of the IKEA promise of beautiful form, practical function and an affordable price.

#ThinkDo

Ikea testing a chair using international standards. What might they be testing for?

What other types of test might they do?

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#ThinkDo



When designing the decor in this coffee shop the designer didn't consider what it would look like from different seats in the restaurant.



What examples of design fails can you find where a product or design doesn't don't quite work in the way the designer intended?

How would you improve the design of the products you have identified?

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#ThinkDo

What does 'ergonomics' mean?
 Why is it important when designing?
 How might you use these images to illustrate your answer?
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#ThinkDo

Why do manufacturers use well known film or tv characters to decorate products aimed at children?

Explain the laws that affect the use of these characters when designing products.

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om

ils

in



#ThinkDo

What do these symbols mean?

What types of products might you find them on?

What other symbols might you also find on products that have these these 3 symbols?



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#ThinkDo

What is the name of the symbol at the top of this circular label found on equipment on a children's play park?

What does it mean?

Where else might you find it?

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Branding, Marketing & Packaging



#ThinkDo

When you buy this t.shirt you get a free e-book with a story linked to the characters

Summarise the benefits to both the consumer & the manufacturer of this type of marketing strategy?

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#ThinkDo

This bottle opener coaster was found on the hospitality tray in a hotel room.



Why might a hotel have branded products like this in their rooms?

Why might this product add value to the guest's stay in the hotel?

What materials might the coaster be made out of to make it cost effective to produce?

How might the product be developed further?

What other products might a hotel or similar venue use to promote their brand?



#ThinkDo

PG Tips Rebranding

Why?

Advantages?

Disadvantages?

Other examples?

Which do you prefer?

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#ThinkDo

This mouse has a woven fabric cover & the use of this type of material is referred to in the marketing for the product.



Why might the design of this product appeal to a user?

What materials are traditionally used for the surface of a mouse?

Why might the material be a poor choice compared to more traditional materials?

The marketing for the mouse says 'fabric is the new black'. What does this mean?



#ThinkDo

Star Wars promotional products

Why do companies produce promotional products linked to films and other events?

Why do consumers buy these types of products?

Look at the product examples below - good or bad design?

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#ThinkDo

Compare the packaging for Lyle's Golden Syrup:

Target market & users

Advantages

Materials

Disadvantages

Manufacturing methods

How would you develop this packaging further?

Design Contexts & Design Problems

#ThinkDo

Fold up camping stool

What design problem does this solve?

Who are the users?

What other existing products solve this problem in a different way?

What would a designer need to consider when designing & making this product?



How would you develop this product further?

#ThinkDo

What do you see?

Who, what, where,
when, why, how?

Design context?

Design problems?

Users & stakeholders?

Existing products?



What 3 questions would you ask?

What do you need to take into account when designing?

What would you design?

Computer Aided Design (CAD)

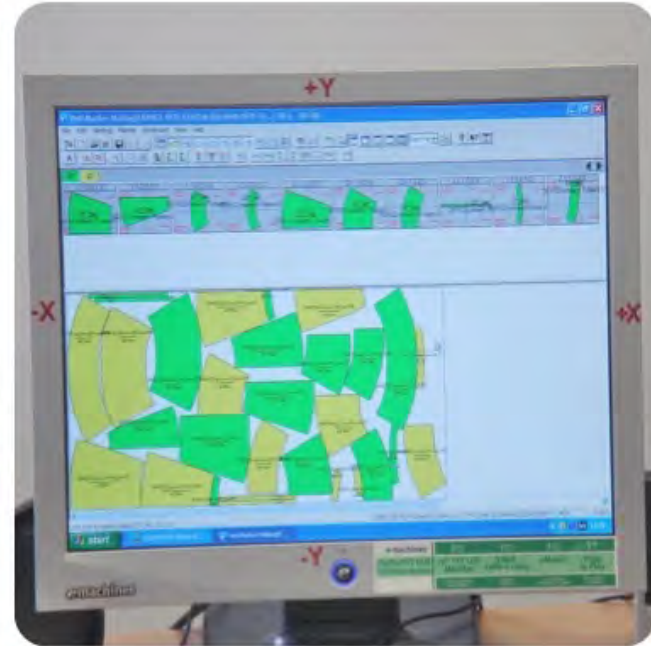
#ThinkDo



A designer using CAD to create a woven fabric design. What does CAD stand for?

What other examples of CAD used in the textiles industry can you name?

Summarise the advantages & disadvantages of CAD when working as a designer.



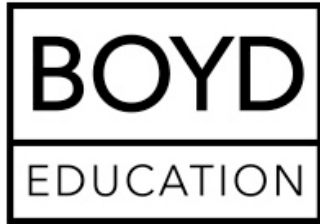
#ThinkDo

Explain how ICT is used in the textiles industry to make paper patterns & fabric layouts/markers

What are the advantages of using ICT when creating paper patterns & fabric layouts/markers?

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