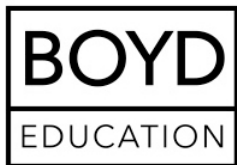


#ThinkDo Cards

Users, Needs & Contexts

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

Family Art Cart in an art gallery

Who are the users?

What is the purpose of the product?

How would you improve / develop the idea?

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#ThinkDo

Who might the user be?

What are the user needs?

What is the function of the product?

What would
you design?

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#ThinkDo

What users can you see?

What are their needs?

What might their lifestyle, interests & preferences be?

What 3 questions might you ask them?

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What special considerations might you need to take in to account?

What products might already exist to meet their needs?

What products might you design / improve for this user?



*"...and one, your Big Button
to say hello."*

Whether you're catching up on all the gossip or having a relax and call in comfort. All our phones are designed for

- 1 Handsfree speaker**
Bringing the caller into the room letting you get on with things while you chat
- 2 Don't miss a word**
Snug fit against your ear makes sure you won't miss a thing
- 3 Hearing aid friendly**
Thanks to the built-in inductive coupler
- 4 No more accidental button pressing**
Easy-to-use buttons for when you just can't wait to share the good news or catch up on some gossip
- 5 Extra large buttons and extra sound control**
Making it easier to use, hear and be understood



#ThinkDo

Big button phone

User & user needs?

Key design features that meet the user needs?

How could you develop this product further?

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#ThinkDo

List the range of products you see that are designed specifically for this user.

What other products might be designed with this user in mind?

What are the needs of this user?

What will a designer need to think about when designing for this user?

What would you design?

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#ThinkDo

Who is the user?

What are their needs?

What might their lifestyle, interests & preferences be?

What 3 questions might you ask them?

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What special considerations might you need to take in to account?

What products already exist to meet their needs?

What products might you design / improve for this user?



#ThinkDo

What are the needs of someone who attends a festival?

What types of products might meet these needs?

What would you design?

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#ThinkDo

Who are the users?

What are their needs?

What might their lifestyle, interests & preferences be?

What 3 questions might you ask them?

What special considerations might you need to take in to account?

What products already exist to meet their needs?

What products might you design / improve for this user?

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#ThinkDo

Who is the user?

What are their needs?

What might their lifestyle, interests & preferences be?

What 3 questions might you ask them?

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What special considerations might you need to take in to account?

What products already exist to meet their needs?

What products might you design / improve for this user?



#ThinkDo

What users does this make you think of?

What are their needs?

What might their lifestyle, interests & preferences be?

What 3 questions might you ask them?

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What special considerations might you need to take in to account?

What products might already exist to meet their needs?

What products might you design / improve for this user?

#ThinkDo



Features of this bag include:

- * A water carrier bladder on the inside along with a drinking tube.
- * A removable solar panel on the front with pockets with charging points for mobile devices built into the bag.
- * Padded shoulder straps & back panel.

Who might a typical user be? What are their needs?

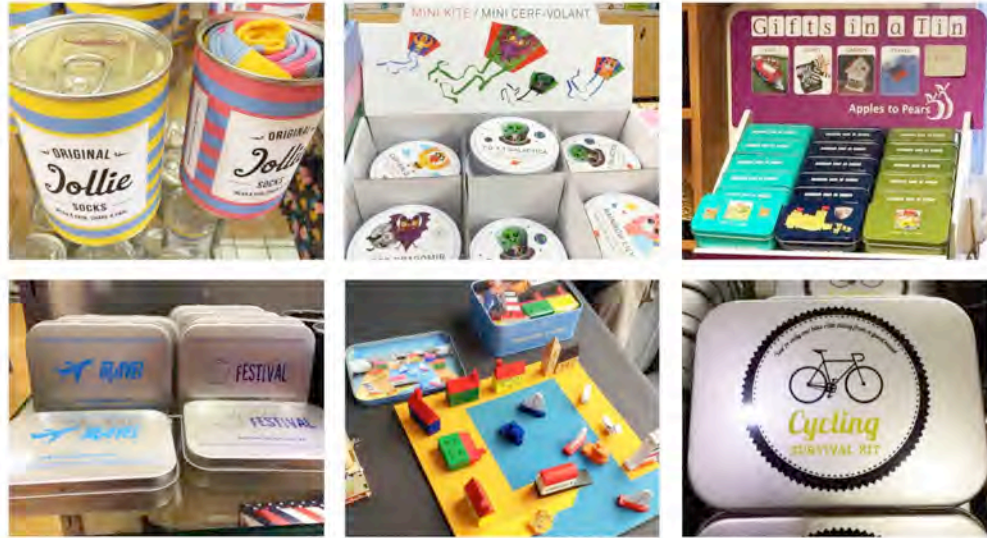
What key features might a consumer be looking for?

How might the product be developed further to meet the needs of a typical user?

What broader impact does the design, manufacture & use of this product have?

#ThinkDo

These gift products are packaged inside a tin.



Who might buy this type of product?

Who might they buy it for?

What user needs does each product meet?

Why might the tin add value to the product in the eyes of the buyer, as well as to the person receiving the gift?

Why might the designer have chosen to use this type of packaging rather than other materials?

What will the designer need to think about when designing a gift that will be sold in a tin?

What other examples of gifts can you find that are sold in tins?

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#ThinkDo

Seasonal Affective Disorder (SAD) can be helped using light therapy. Find out more at www.sad.org.uk

Investigate the products that currently exist to meet the needs of people that suffer from SAD

How well do these products meet user needs?

How might you develop & improve designs that already exist?

How would you completely reimagine & rethink this type of product?

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#ThinkDo



What design problem do you see?

How well do existing products address this problem?

What do you need to consider when designing a solution to this problem?

What would you design?



#ThinkDo

Who are the users & what are their needs?

What function do these products have?

Why would these products appeal to consumers?

What would you design?

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#ThinkDo

Who is the user?

What are their needs?

What might their lifestyle, interests & preferences be?

What 3 questions might you ask them?

What special considerations might you need to take in to account?

What products already exist that meet their needs?

What products might you design / improve for this user?

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#ThinkDo

Vending machine outlet
on a city high street: Pot
Noodles, soup, hot drinks,
cans, chocolate & snacks

User?

Advantages?

Disadvantages?

What's your opinion?

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#ThinkDo

User needs? Ergonomics?
Materials? Design features?
Colourways?
See more Innovative baby
products at www.booninc.com

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#ThinkDo

Breakfast on the Go

Target market?
User needs?
Advantages?
Disadvantages?
Other types of products available?
What would you design?

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#ThinkDo Camouflage trousers

Fibre? Fabric?
Finish?
Components?
Techniques?
Design features?
Reasons for
each?

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#ThinkDo

Function?
Target market?
User needs?
Materials?
Techniques?

How would you develop the design further?

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#ThinkDo

Product Focus: Fold up pen

User & user needs?
Function?
Materials?
Benefits of it folding?
How does it work?

What everyday
product would you
redesign to fold up?

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#ThinkDo

Who might the user be for this product?

Justify why you think it is a good or bad design

How would you develop this idea further?

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#ThinkDo

Who is the user of this product?

What is the product's function?

What special design features does the product have to make it suitable for its function & purpose?

When would the product be used?

Where would the product be used?

What information would be included in the product specification?

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#ThinkDo



**Glow in the dark
baby soother**

Materials used?

Ergonomics?

Who are the users?

User needs?

How might the glow in the dark feature add value to the product in the eyes of the consumer?

What other things would a designer think about when designing the soother?



#ThinkDo

User?
Function?
Materials?
Good or bad design?

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#ThinkDo



What function & purpose does this product have?

Who might a typical user be?

What materials have been used?

What are the advantages & disadvantages of the product?

How might this idea inspire other products?



#ThinkDo

What user is this box targeted at?

Draw the net that would be required for this box, including the position of the face & pop out arms & legs

What does the FSC symbol on the base of the box mean?

Summarise the advantages & disadvantages of using a branded character on the box

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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



Who might a typical user be?

What key features might a consumer be looking for?

What materials and processes have been used?

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

How does this product compare to others that are available?



#ThinkDo

Times tables & word counts printed onto pencils

What users are the pencils targeted at?

What is the function of these pencils?

What would you design?

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#ThinkDo

RFID blocking purses & wallets



These purses & wallets are embedded with RFID blocking technology. What does this mean?

Who might a typical user of these products be?

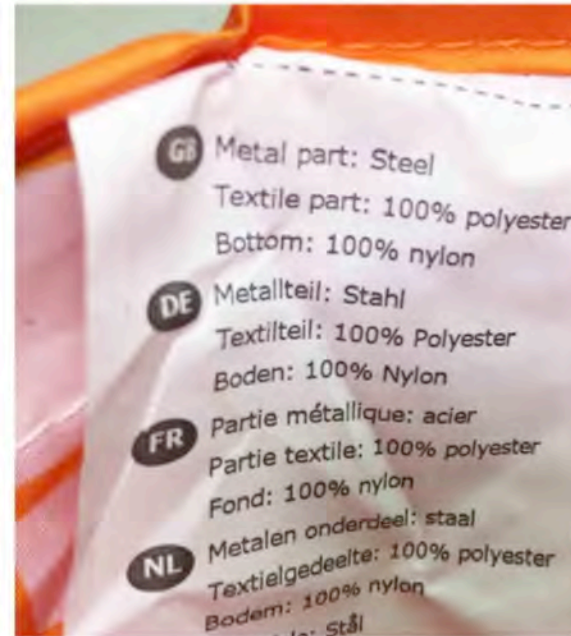
How might the wallets be designed to block RFID signals?

What other products might this RFID blocking technology be used in?



#ThinkDo

Fold Up Storage Basket



What design problem do you see?

Who might typical users of the product be?

The product is made from nylon (the main body of the basket), polyester (the base) & spring steel (to give the basket a structure). Why have these materials been chosen?

What are the advantages & disadvantages of the product?



#ThinkDo

A traditional suit style jacket combined with a hoodie

User?

Design features?

What's your opinion?

What 2 different products would you combine to create a new product?

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#ThinkDo

Product Focus: Bag

User?

Function?

Techniques?

Materials?

How might the design be developed further?

How has the brand been used to add perceived value to the product?

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#ThinkDo

What is the function of the clip on this table in a fast food restaurant?

What user needs does it meet?

How would you develop the idea further?

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#ThinkDo



What are the advantages of using polyester fabric for this set of travel bags?

What user needs does this product meet?

What else would you design for this user?



#ThinkDo

Special features?

Materials?

Advantages?

Disadvantages?

Target market?

User needs?

How would you combine ideas to create a new design?

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#ThinkDo

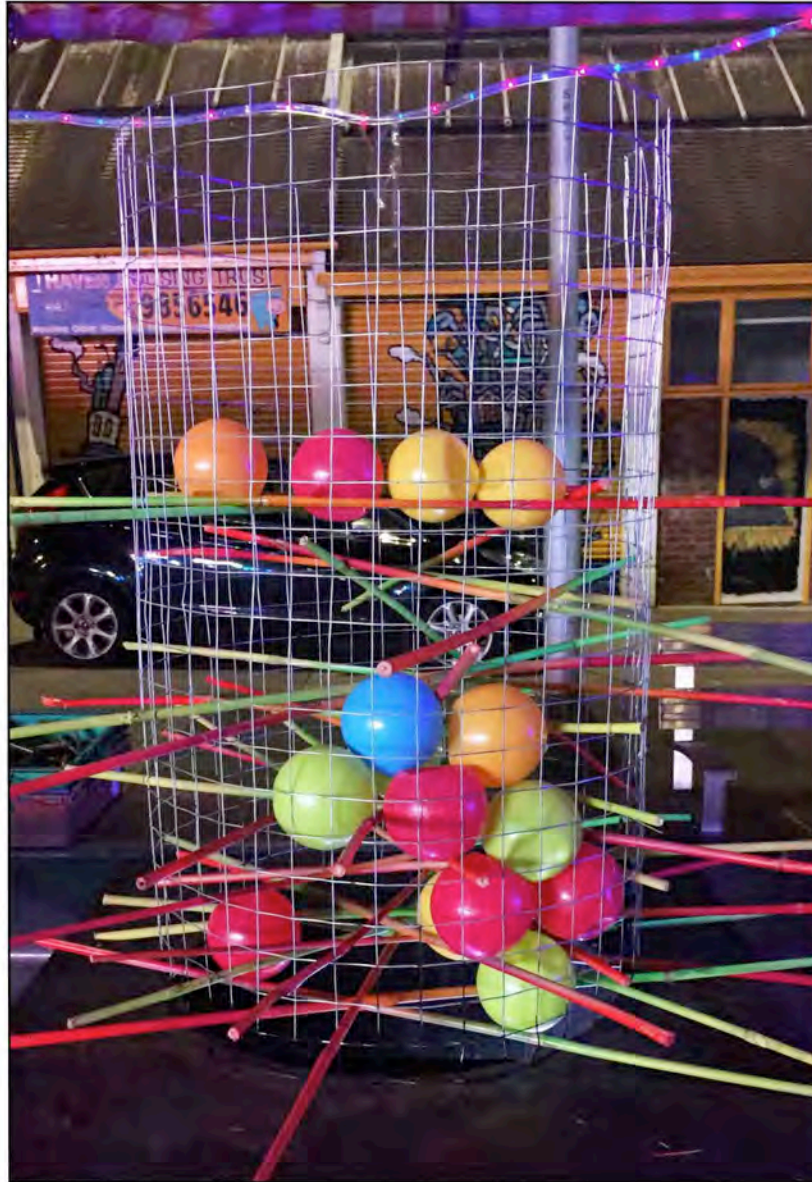
What are the designers trying to achieve with these outdoor community table tennis tables?

What points would need to be considered when designing for the outdoors?

What points would need to be considered when designing for a community space?

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#ThinkDo



A giant Ker Plunk game made from wire, giant straws & large plastic balls at a community event.

What traditional game, activity or other product would you upscale to create a giant version to use at a community event?

When designing something for a community event what types of things would a designer need to consider?

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#ThinkDo

Outdoor community gym

What would need to be considered when designing for a community space?

What would need to be considered when designing for the outdoors?

What are the designers trying to achieve with the gym?

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#ThinkDo

User?

Purpose?

Where might you find this product?

How would you develop this idea further?



Find out more at
www.rebowall.com

www.julieboyd.co.uk



#ThinkDo

Park benches in public spaces: Who uses them? What for?

How would you rethink & redesign a park bench in a community space? Think about materials, shape, ergonomics, anthropometrics, personal space, & the position of the bench.

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#ThinkDo



Seating in an open air concert venue

What material might have been used for the seating?

What would the designer have to take into account when designing for this context?



#ThinkDo

Promotional material for the rugby World Cup. What would you design?

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#ThinkDo

St. Patrick's Day novelty products

User?

Environmental impact?

Purpose?

What would you design?

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#ThinkDo



What do you see?

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

Design context?

Design problems?

Users & stakeholders?

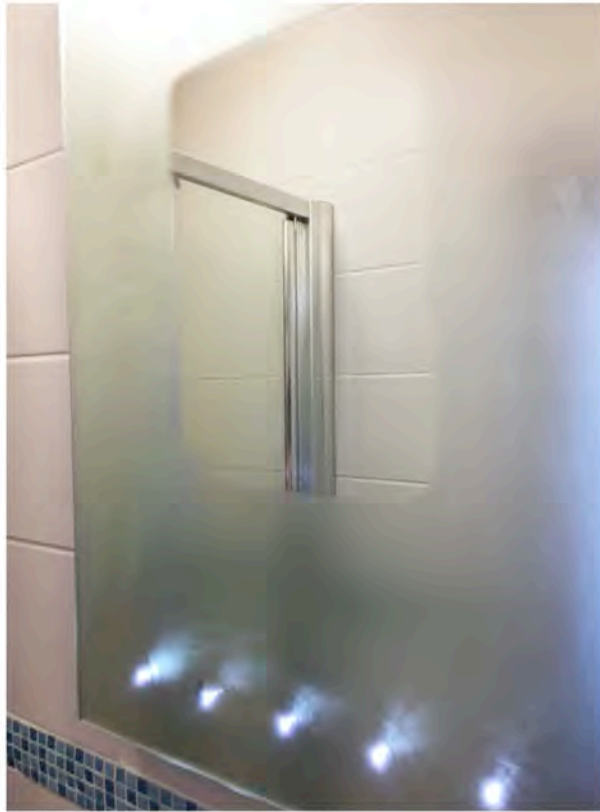
Existing products?

What 3 questions would you ask?

What do you need to take into account when designing?

What would you design?

#ThinkDo



Motion sensor mirror with LEDs & heat panel

What design problem does this solve?

Who are the users?

How does this product compare to other products on the market?

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

How would you develop this product further?

#ThinkDo

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when, why, how?

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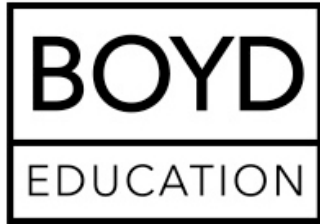


#ThinkDo

Doggy Deli dog treats. What pet product would you design?

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