## GCSE Design and Technology Fashion & Textiles Ffasiwn a Thecstilau

Iterative Design Process

Modelling







# Ideation, Presentation & Creativity



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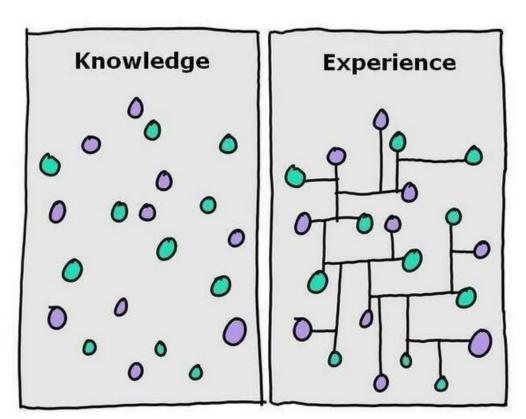




# Inspiration



# Make connections









# **Come up with lots of ideas**





# The circle challenge

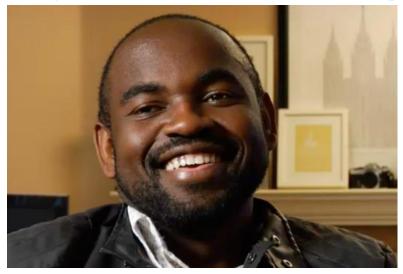


## The circle challenge

Quality Range Rules?

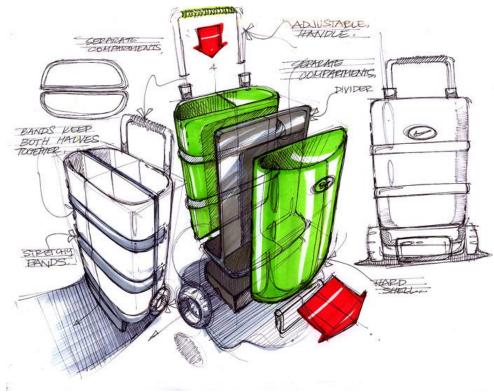


# **Spencer Nugent**



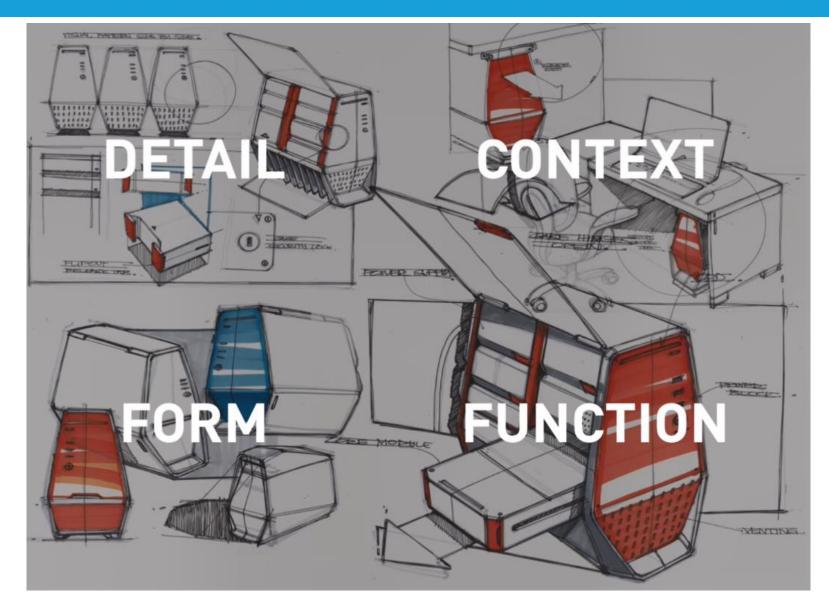
http://www.spencernugent.com/ http://www.sketch-a-day.com/

https://www.youtube.com/watch?v=m\_0Oz2D--I0



#### HAVE A CONVERSATION WITH YOUR SKETCH.



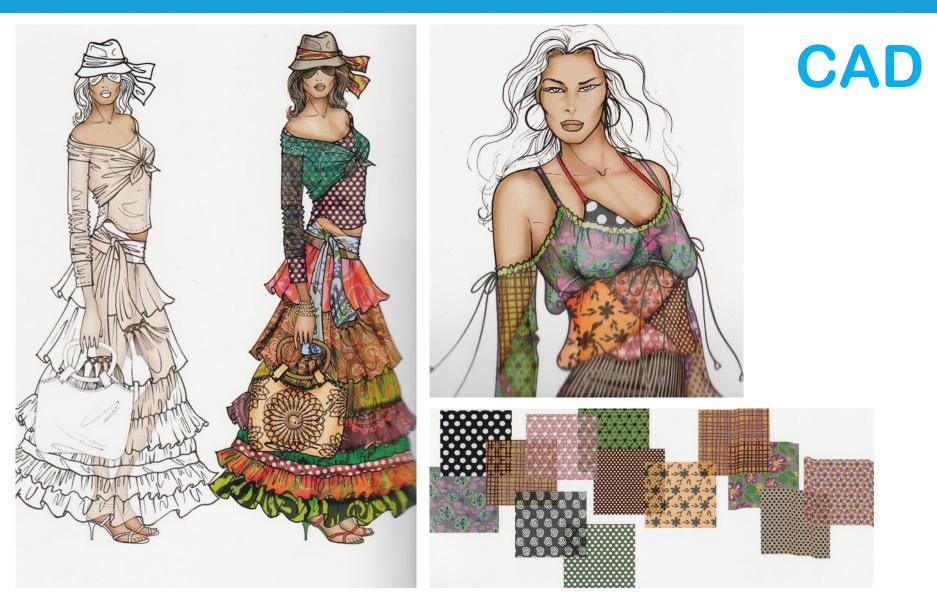




 Quick sketch ideas – some more detailed than others
Concepts clear











Pepin

Elisabetta 'Kuky' Drudi | Tiziana Paci

# fashion design principles, practice & techniques : the altimate gaide for the aspiring fashion artist Caroline Latham & Julian Seaman Thames & Hudson

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# Modelling in Design and Technology

# **Fashion & Textiles**

Matt Archer

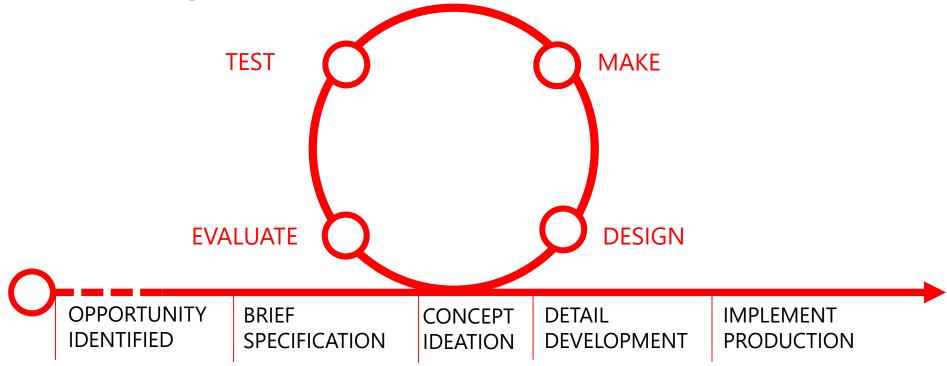


Prifysgol Cymru Y Drindod Dewi Sant University of Wales Trinity Saint David

Swansea College of Art Founded 1853



#### Product Design: iterative research process Modelling: simulation 'looks like' or 'works like'



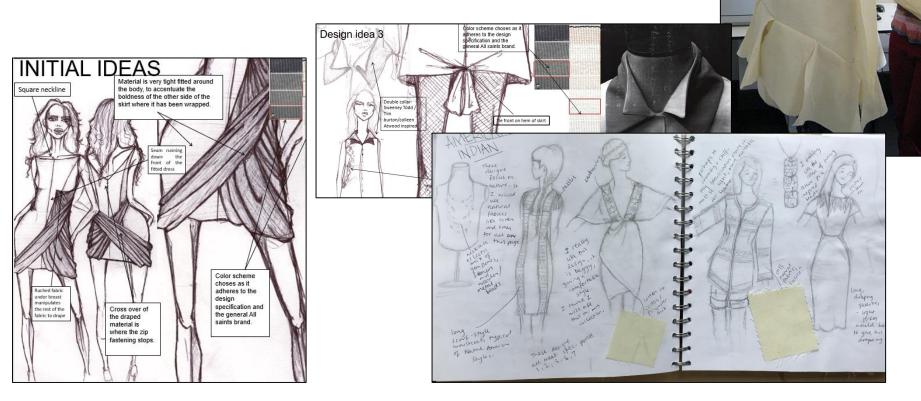


Modelling	Types High Fidelity	Experienc Paper Pro	odelling ice Models e Prototyping itotyping Modelling ming Dirty es s	
OPPORTUNITY	BRIEF	CONCEPT	DETAIL	IMPLEMENT
IDENTIFIED	SPECIFICATION	IDEATION	DEVELOPMENT	PRODUCTION



#### Sketch Modelling:

- Life size or scale
- > 3D exploration of initial ideas toiles
- Evaluate aesthetics | ergonomics | function | usability
- Explore ideas, problem solve and capture ideation phase



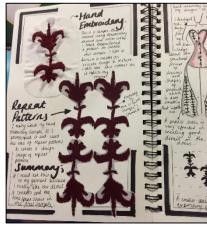


#### Mock ups:

- Life size
- Practical testing of ideas style details, processes, decorative details
- Evaluate form | function | ergonomics | style
- Proof of principle [pop]







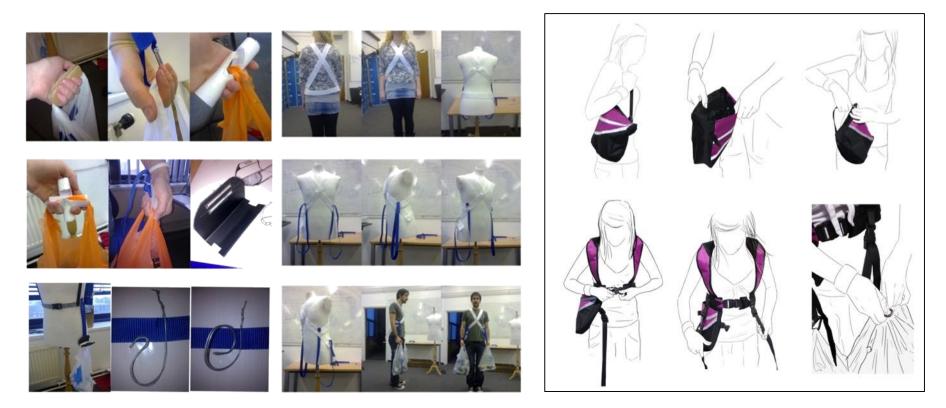






#### Quick and Dirty Prototyping:

- ➢ Life size
- Communication of ideas and concepts with others
- Evaluate basic format | use
- Rough & ready to speed up design process use any available materials to test concept





#### Body Storming:

- Enactment set up a scenario to establish constraints
- Support ideation and empathy modelling
- > Evaluate social & spatial scenarios | behaviour | user experience | understand the problem





#### **Empathy Modelling:**

- Life like or actual
- Simulate user capabilities (physical or cognitive)
- Evaluate usability | user experience | better understanding of issues
- Inclusive design older or disabled users

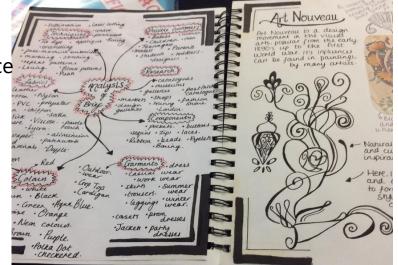


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#### Paper Prototyping:

- ➤ Life size
- Testing usability of human-computer-product interface
- Evaluate logic | layout | task effectiveness
- Low cost paper or digital [e.g. powerpoint]











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#### **Experience Prototyping:**

- Life size wearer trial of prototype
- Testing user experience of engagement with product | service
- Evaluate interaction | usability | user experience
- Uncover un-anticipated issues or user needs | modify













#### Appearance Models:

- Life size or scale
- Simulate aesthetic qualities (non-functioning)
- Evaluate aesthetics | form | feel | user/wearer response
- Communication | marketing | exhibition









#### Virtual Modelling:

- ➢ Life size
- Accurate representation of aesthetic and functional features
- Evaluate appearance | performance | manufacturing
- Render, animate, check interference, mould/kinematic/heat/stress analysis





#### Rapid prototyping:

- Life size
- Concept modelling and accurate aesthetic and functional prototypes
- Evaluate all aspects of design specification
- Diverse range of processes and materials









#### "Fail Often Succeed Sooner" David Kelley IDEO