D Determine the Need

- Read and understand the brief.
- Use logbooks for mind mapping, ideas, sketching, notes, and pasting in things of interest.
- Create 15-20 thumbnail sketches of loose ideas.
- Choose an existing "seating object" as an example of good design.

E Explore the Options

- Discuss chosen "seating object" examples as a class. Tell us what makes it good.
- Explore cardboard techniques: weaknesses, opportunities, zero waste cutting. Experiment with the rubber material. Explore ideas for integrating rubber into concepts.
- Quickly sketch a variety of ideas (4 per page); create rough 3D paper sketch models —small examples of a full chair and section components that need working out; move to cardboard and rubber to investigate your ideas for form, functionality, integrity, etc.
- Continue to experiment.

S Set the Parameters

- Define qualities and design direction to set the parameters for your design. Begin making and testing final concept at larger scale.
- Test your best ideas and fine-tune your assembly techniques to fit your parameters. Don't be afraid to alter what isn't working or revisit old ideas. Keeping your mind fluid is the essence of good problem solving.

I Integrate the Ideas

- Refine aspects of full size structural prototype. Test for strength and disassembly/ collapsible options.
- Refine your design and determine best cutting patterns for zero waste and clean finishes.
- Continue working on your final prototype.

G Generate the Product

- Finish the assembly of your working prototype
- Fine-tune the final details of your prototype and anything necessary for presentation.
- Practice your presentation. Prepare your opening line in advance. Try it out on friends.

N Note the Results

- Present your seating design in 5 minutes for critique. Speak loudly and clearly. Show us your working prototype, how it functions and how it transforms for transport.
- Tell us what you love about it, how you came up with it, what makes it unique, what challenged you. Consider the idea, the execution, the process and risks taken.