0.5-1.0kas

- 0.5 Drift Shute (incl rope) 0.5 Food & Snacks
- 0.5 Wallet, Keys & Phone
- 0.5 Clothing
- 0.6 Bait Board
- 0.6 Scotty Rod Holders (2) 0.7 Anchor Rope Spool
- 0.7 Fnviro-Net
- 5.5 Total Weight

- 2.0-3.6kgs
- 2.0 Crate and rod holders 2.0 2L Bag Ice
- 2.3 X-Wing Sliding Console 2.5 12V 7.2 AH Battery
- 8.8 Total Weight

23.0kgs 23.0 Malibu Stealth 9 Kayak

1.17 **Equipment Analysis**

WEIGH IT ALL:

To make sense of the weight of a fully loaded fishing kayak, the designer analysed all equipment weights and volumes. This process highlighted equipment that was heavier than first expected, and allowed for a real understanding of volumes and proportions that the design would need to cater for. The weight of equipment were grouped together to visualize and make comparisons, and identify areas where compromises could be made to lessen weight carried.

ROOM FOR IMPROVEMENT:

This exercise highlighted that some equipment could be improved to contribute to the lightness of the overall product. Key areas of weight reduction up for investigation include the trolley, battery and motor, cooling and storage areas for fish, rod holders and moulded plastic equipment, and the main seat. There also needs to be a better distribution of weight to help centre the balance on the kayak. Sourcing of appropriate alternate lightweight materials or redesign of the item itself are ways to address this issue.



SOME ITEMS WERE MUCH **HEAVIER** THAN I INITIALI

THOUG

The equipment used on the designer's fishing Ine equipment used on the designer's harming and organised by mapping of the mapp kayak was examinined and organised by malphing equipment based on two categories: importance in relation to Safety and functional Importance in relation to salety allo inliction ial of equipments, and now irequerity each piece or equipment is used, lasks were mapped out establish links between these two categories, and assisted in developing an equipment hierarchy. The equipment was then grouped into storage tiers which helped package grouped if ito storage were writer inequely package to develop an initial storage Solution which aimed to develop an initial storage SOLUTION WHICH AIMED TO MAXIMISE ETICIENCY F Provide Sound ergonomics while on board.



Further analysis of the equipment weights and heirarchy

of use on-board allowed a better understanding of the

package and areas of focus for design