# Specification Developed from Research

1) Write a list of **performance criteria** for your product. Base your points on what you have found out in your **research** and from what you know about the **user's requirements.**

2) Show that your specification points are **valid** by **justifying** them saying **how they are based on your research.**

3) Make sure you have points that are **technical**, points that are **measureable** and points that will ensure the **sustainability** of the product.

| | **Specification Points** (Specific performance criteria)<br>This is what the product must be designed and made to do.<br>Points must be **technical**, **measureable** and **sustainable.** | | **Justification** (refer to your research and the user's requirements to justify why you have made each point) |
|---|---|---|---|
| **Form** | **What shape does the product need to be?**<br>**How will it be styled and why?** | …because, so that, in order to, research tells me that… | |
| **Function** | **What is the purpose of the product?**<br>**What does it need to do in order to be successful? What problems does it need to solve? Where will the product be used? Under what conditions?** | …because, so that, in order to, research tells me that… | |
| **User/ Customer needs & wants** | **What are the users needs and what must the product do to meet them?**<br>**What are the user's wants and what must the product do to meet them?**<br>**What will the product need to do in order to be attractive to the users?** | …because, so that, in order to, research tells me that… | |
| **Performance Requirements** | **What are the technical considerations that product needs to achieve?**<br>**What are the Critical Sizes you have to work with ? Including anthropometrics.**<br>**What is the location of the product and environment of use?**<br>**Sizes of the materials you are able to use**<br>**Amount of material to be used**<br>**Important components that you will use (light bulb socket, switch, clock mechanism, screws/ bolts etc)**<br>**Anthropometrics (measurements of the humans who will use the products)- you need these to design the products around so that people can hold and operate them easily and efficiently.** | …because, so that, in order to, research tells me that… | |
| **Materials and components requirements** | **How should the materials and components perform within the product? Under what conditions must they work?**<br>**What material properties are needed to make the product fit for purpose? Which materials might meet those properties? How much material is it possible or desireable to use?**<br>**What important components that you will need to use (light bulb socket, switch, clock mechanism, screws/ bolts, etc)** | …because, so that, in order to, research tells me that… | |
| **Sustainability Issues** | **How will the product be designed and made to be sustainable / environmentally friendly?**<br>**What sustainability issues are you going to deal with to make a more sustainable product? How might you reduce the material used, reduce waste in manufacture, improve the ease of maintenance? Could you up-cycle products to incorporate into your work, use recycled materials and components? Could you design the product to be easily broken apart at the end of it's life for recycling? Could you use recyclable materials? Could you reduce the number of components to make it less likely to break and use less materials?** | …because, so that, in order to, research tells me that… | |