Conducting a Needs Analysis- Bird Feeder

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| What is the motivation/purpose for the design? There will usually be multiple motivations. |   |
| Who will use the product/system being produced? What is their age, characteristics relevant to the design? How will you find out what their needs are? |  |
| Are there any other stakeholders to consider? |  |
| What is the need being met through this design? |  |
| What alternatives are already available? Why is this design better? |  |
| Are there any constraints to the degree of freedom that you have in creating the design? |  |
| What are the characteristics of the design that will meet the needs of the consumer and other stakeholders? |  |
| What research will be needed to develop an understanding of how the design and manufacturing process will be enabled, what processes developed by others can be used etc? |  |
| What manufacturing constraints will influence the design – cost, equipment, safety, time etc? |  |
| What other theoretical knowledge should I access before considering the design? |  |