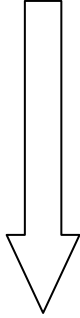
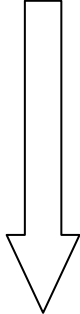


Design criteria hierarchy



This table identifies the primary and secondary functions of a proposed design or existing product when it is being analysed and evaluated. It also establishes the most important to least important features of a product. Evaluation criteria are used to create the hierarchy. For example, the student developed criteria for evaluating designs for a backpack and developed three design options. From the ranking below, the student is likely to select design option 2 as the 'best' option as it best meets the requirements.

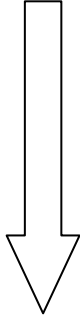
Primary function/s or purpose of product		Hierarchy of criteria for evaluating design options or features of a product	Design (option) 1	Design (option) 2	Design (option) 3	Design (option) 4	Design (option) 5
Carry belongings	Most important  Least important	Do my belongings fit easily into the backpack? Is it the right size? Are there pockets to hold smaller items?	H	H	L		
Weather proof – keep things dry		Is the material the backpack is made from weather proof?	L	H	L		
Protect belongings		Is the fabric strong? Is there padding to protect the enclosed items?	M	M	M		
Needs to be comfortable		Are the straps in the correct place? Is there padding at the back of the bag so items don't protrude into my back?	L	M	M		

Secondary function/s purpose of product	Most important	Hierarchy of criteria for evaluating design options or features of a product	Design (option) 1	Design (option) 2	Design (option) 3	Design (option) 4	Design (option) 5
Needs to look good		Am I happy with the way the back pack looks?	H	H	M		
	Least important						

Rate how well each design option or existing product meets requirements of the criteria using the ratings:

- **H** (meets criteria to a high level)
- **M** (generally meets criteria)
- **L** (meets criteria to a low level)
- **N** (does not meet criteria)

Use the proforma below to develop criteria to evaluate a design you are developing and select design options.

Primary function/s of product	Most important  Least important	Hierarchy of criteria for evaluating design options or features of a product	Design (option) 1	Design (option) 2	Design (option) 3	Design (option) 4	Design (option) 5	
Secondary function/s of product		Hierarchy of criteria for evaluating design options or features of a product	Design (option) 1	Design (option) 2	Design (option) 3	Design (option) 4	Design (option) 5	

Rate how well each design option or existing product meets requirements of the criteria using the ratings:

- **H** (meets criteria to a high level)
- **M** (generally meets criteria)
- **L** (meets criteria to a low level)
- **N** (does not meet criteria)