## **Candidate 2 evidence**

ENTER HUMBER OF DUESTION	:	DO NOT WIRTE IN THIS MARGIN
1.	Playground sand digger!	
9)	The use of tubular Stainless Steel is suibable as	
	it Will be easy to maintain. Meaning no damage	
	one essences will rain it.	
. '	The textured ABS seat is a suitable material	
	to use as ABS can Hithstand a lot of Weight	
	meaning anyone of any size can six onit. The	
	texture also allows grop and the user work suffer	
	from sliding.	
	The nylon hearings are a suitable material to	
	Use as notion is Strong and sturdy meaning it	
	Hill keep everything in place without any damage to	<u> </u>
	the bearings.	
	Garden digger:	
	The mild steel frame is a suitable material as	
	mild Steel isn't that heavy making it easier	$\sqcup$
	for the user to move around.	
	The rubber handles are suitable as it offers	
	a lot of comfort and grip strength Without the hands	
	moving to excessively.	

ENTER HUMBER OF QUESTION	DO NOT WRITE IN THIS MAGIN I
b) A suitable process that would be used	in the
production for the diggers would be die	casting.
This is suitable because this allows the	e materials
to be hollow with still a unique shape.	
Another process would be insection m	
the polypropylene and ABS sourings. T	
Suitable because it makes the product	Solid and
durable While allowing it to also Feature	a textured
pattern.	
C) The physiology of the Playground sand of	ingger is
the distance from the Seat to the	controls.The
Seat is placed at a good distance so the	
operate and not be uncomfortably dose	to the
Cantrols.	
The physiology of the garden diggers rul	
is to fit the hand and make it comfor	table while
in use.	
The garden diggers Seat also forms around	, ,
rear area of it's users. Making it more	20 infortable
to rest on.	

ENTER NUMBER OF QUESTION	DO NOT ! WRITE IN THIS MARSIN
d) The design of the Plagground sand digger has	
been influenced by safety as it is permenantly in	$\sqcup$
the ground. Meaning that the user work fall over	
or crash while using it.	
The function has influenced the design as the	+
the handles both operate different parts of the	-
digger. Meaning the handles help lift and move	+
the digger reducasing the Substances.	
the endless use of curved areas on the products	
means safety was included in the design. The use	
Of curves restricts the fall damage or cuts as	+
they are smooth surfaces.	-
	+
	$\dagger \dagger$
-	

ENTER NUMBER OF QUESTION	NOT I
2.01 A thermo setting plastic is Suitable for these	
Ritchen Utensils as thermo platitic is heat resistant	
and won't melt or flake while in use. Thermo plastic	_
is also easy to maintain as it has no texture	_
and can easily be washed With no hassle.	-
b) Compression moulding is a suitable process for	
these products as it allows the products to achieve	
the unique shapes i.e. curves.	_
It can also allow the products to be thin but Still	4
Very durable.	-
	-
C) The designers idea generation techniques that	$\dashv$
they may have used could be scale models. This	$\dashv$
means the designer could have used materials such	$\dashv$
as card or day to achieve a physical product as	$\neg$
d cascare.	$\dashv$
	$\exists$

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
3-a) A benefit of Standard Components is that they are	
already made, meaning the consumer can obtain	
the components easily and reasonably cheap.	
Another benefit is the consumer can get multiple	
different sizes of the components in case cortain	
Ones don't Work.	
	-
b) A benefit of using CAD is that it gives the	$\vdash$
designer and idea of the ins and outs of	
the product before the manufacturing begins to see	
how it all goes together.	
Another benefit of CAD is that it shows how the	
product will look in 30. Giving the designer a	
chance to see if they like it before wasting money on	$\vdash$
manufacturing.	
	-
C) tully automated production processes can have	-
a negative impact on labour Workers. A fully	
automated production means labour Workers Work	
receive any Work and potentially end livelihoods.	-
Another impact is productivity. Since the machines	
don't need Shifts, they can work 24/7 with no	
breaks potentially rising productivity and being	<u> </u>
ahead of the competition.	

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4-0 An advantage 30 printing has over the traditional	V
manufacturing processes is time. 3D printing is	
Much quicker than the traditional processes making	
it a good effective manufacturing process.	
Another advantage is that it's not nearly as costly	ļ
as the traditional processes. This benefits the budgeting	_
greatly as they won't need much for production.	
b) An appropriate method of carrying out research is	
Checking the users measurements to make sure that	_
the product fits their body well.	
Another appropriate method is finding out the	
mechanics of the prostbactic teg. Seeing how it	
Should go together and Work property.	
An appropriate method would also be the design.	
Decing how the designer can make it as	Щ
confortable as possible for the user to Walt in the	
C)(i) A product design specification is so the designer	
Rnows What theme, colour Scheme and target market	
the the product they're designing for needs.	
(11) A technical specification is information about what	$  \_  $
Materials and methods the designer should use in	igspace
the production of the product.	

ENTER HUMBER OF QUESTION		DO KOT WRITE IN THIS MARGIN
<u>5 a</u>	The colour of the kettle is their appealing as it's not	
	too Vibrant but not too bland either. Involving some	
	nice yellow and silver controst.	
	The overall design is visually appealing, following the	
	traditional look of a kettle with hints of modernisation	-
	The use of Eurves and triangular Shapes also	
	creates nice contrast but also allows good use.	
_		
6.	trognomists:	$\square$
_	Their sob is to make sure all the products	$\vdash$
	came be used comfortably and make sure all	
-	the products are fit for purpose. Meaning they do	-
<u> </u>	test the products before the product is fully released.	
_	Martret researchers:	
	Their Job is to research the new trending things	
	in the world to put them into future products to	
_	boost sales. Meaning they research key aspects	-
-	of a certain thing to help the product.	-
	Project managers	$\sqcup$
	They're the ones in charge of certain productions	
	deciding what is allowed and what is not. Meaning	
	What they say goes.	-

DATER DEMAGER OF QUESTION	DO NOT WRITE IN THIS WARGIN
7-a) (i) Texture is a good method to use when	
determining What material has been used. A lot of	
materials have distinctive finishes such as	
Smooth or rough textures.	
Mildhet iarabar rachar toruse	
A burn test is a good method to use When	
determining What material has been used-Whateve	4
colour the flame goes allows you to know	
What material it is.	
(11) Manufacturing features are used to aid an	-
accurate and efficient assembly as certain features	-
are specifically made to fit one and other.	-
Meaning all products are made to fit each other.	
b) Manufacturers can use other methods of production	
to help reduce the environmental impact such	
as sound costing. Sound costing allows the product	
to be made using a natural source causing	
less damage to the environment.	
Manufacturers can buy standard components to	
help the environment. By buging standard component	<b>-</b>
they Won't have to make thon from Scratch Which	<u>  -  </u>
means less impact.	$\vdash$
Leducing their carbon footprint could also impact	

ENTER MUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
	the environment as they won't need to travel	
	Certain components to each other but instead	
	sust have them all together.	
Q		
0.	Sketch models can be used to effectively	
	gather information during the design process as	
	having the object in a 3D form allows you to	
	determine how it looks to gou if it's good or needs	
	twented. This usually comes first in production.	
	(ad model can also be used to gather information	n
	as it allows the designer to see how they'll build	
	the product. Seeing What goes Where and the	
	support needed. This stage Will usually appear	
	after the sketch model.	
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