## **Candidate 3 evidence**

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
(1a) - On the play ground sand digger the nylon	
15 Suitable as It is self lubricating, this	
is good to make sure the bearing can	
Continue to move freely over time.	
- On the play ground Sand digger the Stamber	
Steel 15 Suitable as It is resistant	$\vdash$
to corrosion, therefore wont rust even	
though will be outside all the time.	
+ Oo H channel & I diene M ARS	
15 Sultable as It has a good Surface	
Finish so will need no extra finishes	
and less mantamagece.	
The state of the s	
-on the gardon digger the rubber handles	
arc A. Suitable as it is easy to	
grip and so children wont grop the	
arm during use	
- On the garden digger the milel Steel (Painted)	
IS Suitable as It is tough so Will	
Withstand Suddon impact and is painted	
to Stop rusting/corresion.	

ENTER   NUMBER	DO NOT
GUESTION CO. A.	MARGIN
- On the Garden digger the polypropylone 13 Suitable as it is chemical resistant	
13 Suitable as it is Chemical resistant	-
So Will be able to be Cleaned	
and with stand woodher conditions	
16) On the play ground the Stainless Steel fame	
would be extruded this is suitable as	
It keeps the type the Same leaving no	
Weak points.	
+ On the Garden digger the solid polypropylens	
Scat World be injection movided, this is	
Suitable as it can be used overand	
Over again and can be very destroled.	
- On the garden digger the hollow ABS Wheels	
would have been made by rotational mortding,	
this is Suitable Ms It Can Create	
a hollow inside and gragge 18	
Suitable for the material.	
	$\Box$
	$\vdash$

ENTER   NUMBER	DO NOT WRITE IN
QUESTION A.	MARGIN
10)- Anthopometrics would have influenced	
the design of the playground digger with	
The higher of the Seat making sure it	
ISN't too high people Cam have three fiet	
on the flow for extra support.	
- Physiology would have influenced the dasger	
of the playground digger with the weight of	
the arm making Sure It 15th to heavy	!
for children and is light enough to move.	
- Anthopometrics would have influenced the design	
of H. Dorden digner with the notice bondles.	
of the garden digger with the rubber handles, they would have a diameter So	
children couldwap there hand round	
comforthy.	
OMPONEY.	
Place day I would have with enced the	
- Physiology would have influenced the design of the garden digger with the wheels	
Mostgr of the garden digger with the wholes	
Spm everly So the digger Can move	
spire entry so the argaest can move	
around during use.	+
	-

ENTER :	DO KOT
OF QUESTION	THIS
Id) The Playground digger has been influenced	
by function when deciding to made it	
rotate 360° and use of self lubricated makeria	1
to make sure It can rotate with	
no extra maintains such as Oiling or growing	
- Safty was influenced the design of playground	
diggel, making it permantly fixed stops	
chances of tipping over during use	
meaning less chance of injury.	
- Function has influenced the design of the garden	
digger, WIM having 4 wheels making	
It Stath and Stoping typs while children	
ver the digger.	
- Safty has influenced the design of the	
garden diffee with use of transles stopping	
on the moral's shorp corners.	
or the moral's shorp corners.	

ENTER NUMBER OF	DO NOT WRITE IN THIS
- function has influenced the design of the garden	MARGIN
digger With paint being reed, paint added	
to the Steel Stops rust and parties expends	
the diggers lifespan and makes the	$\square$
digger safer for long term use.	H
10) - On the garden Angger. CNC could be	$\vdash$
used to up production has it makes	
very detailed parts and very recreatle	
Suitable for production	
+ Just-In-time production would make the production	H
of the gardin digger more efficient with less	$\vdash$
Storage nothing will be lost and 1688	$\vdash$
room needed for storage soving money.	
- Automation would product the production of	
the playground droger with quicker manufactor	4
and less people needed	
40	
- Batch Production Could Improve effectioning	
in of the garden defect with no warries of	
wasted unsold products as you would make	+-
how many you recol.	

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
2 m	<u> </u>
- thermosething plastics are suitable as they	-
utensils will be used in boiling tempresses	
or origins of the second of th	
- thermosetting plastics are suitable as they	
Can be odovtess and tastless mening there	
15 no affectaste on food and 15	
25) Very hygienit.	
- Compression moulding would be Suitable as	
It Can Create the Shape of the utensite:	
Very quickly so is good for production.	
- Compression moulding would be suitable as	
It Can be done over an over again	
so is ideal once you get the correct	
moùld.	
	-

ENTER NAMED OF CHESTION AND SECOND OF MARGO	
QUESTION MARGO	- 6
	4
20)- paragram mortholographables can be used	+
to Create ideas by having diffrent Colours,	-
materials and forms in a table and	_
Can randomly tree with each option to	
find the perfect product	
- analogy can be se to generate ideas	
by choosing a product or therea item	
and Cocaring designs around those Homs	
as inspriation	
30+ a benifit of Standard to the Consumer is	
if Something breaker it is every to	
replace and to find a replacement.	
- A benifix of Standard Components to the	
Consumer 15 the bille can be taken	
especial casing and put together which can	1
be good for Storage or if Something	1
15 broken.	1
. Is stouch.	1
	1
	+

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
36) - CAD would be useful wilst desiding	
mell colour and materials as designer	
favorite and can test materals	
favorifle and can test materials	
- CMD Con 1 al Proposition	
CAD can be a benifit as it can	
Vich can help Send design to manifectors	
CAD can be a benifit when creating dimention	
as CAD can fast to make fore it works	
and goes logether with no material wasked.	$\square$
30-11	H
30) Automated production means less people VIII	
be employed so there are less Jobs whatash.	
Mantaga.	H
- Automated production means diffrent type	
Of training and no more traditional	
Of Harning and no more traditional methods incoming less people that listed	
opotate the machinary.	

ENTER NUMBER .	DO NOT WRITE IN
QUESTION CO.	.MARGIN
4 a) - 3D Printing Can be done at any 30 printer	1
So com be sent ull over the Worth	-
hilping people Create prosthetics.	
	1
+30 prining will be cheaper than traditional	
method making prostheries more affordable	
for those that beed it.	
45)	
MB A USET trial Could be used with a	
prototype to test the fit and how	
it walks and can gather the info of the	
public and vers oppion on the looks and	
function	
- A questionaire Could be used to discover	
the needs of a client and could get	
feed back to get colons preferances, Size.	9
and Stylis.	
<b>3</b>	
40) - product Alan design sepsification is to help designers	r
With form and Colour and Could have	
info on how the product should look	
and preform for example the product	
must use one Colour to match Style.	
THE CONTROL OF THE PARTY.	

ENTER NUMBER OF	DO NOT WRITE IN
40) - technical specification is used to get	MARGIN
Sizes and prices and potential processes,	
asses some An example is: the product must	
be no more than 1.5m by 1.5m	
Sat the form of the kettle having mainly	
corred edges makes the keth look	-
modern and high tech and a good	
quality.	
- the Shape of the kettle makes 12	
100k like an old School tea pot	
Which gare Customer Confidence That	
It will work well with a good pour.	
- the colour of the Bettle makes It look	
Clean and hygeinic for a good testoden	-
and make the kettle appealing	
- Prochable of W. Lovid L. II. is appealed	
+ Proportion of the kettle brandle is appealing	
AS It looks to be long enough to	
ger a good grip and very Confort	

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
<b>6</b>	
56)-trademades can project the logo's,	
lingles and brandhames.	
- Copywite Can be used to protect writing,	$\square$
art & music.	$\perp$
DAS the ergomist will work with the designer	
to discoss the anthopemetrics, physiologie	
and puscologic Whilst designing a product,	
they will help make sure Size are	
Suitable and everything is Safe with	
weights and tentions.	
- the market researcher Will Work with the	
design from and look to Sec	
What the mather want and give	
· feed back to the designer, the marker	
researcher may carry our first hund	
Mescach with 1 ver trips /trials,	
questioneires and survays and report	
back to disigner with there gathered	
Info.	

DO NOT WRITE I THIS CHESTION	T N
- the project manges will work inhuidval.	
teams and will be the incharge	-
of individual projects, he will set	+
deadhnes and make Sur everything	+
runs smoothly.	+
7ai) - burning plastics can be used to identify	
Materials, indicators are the Smell given	
off, the colour of flame, the molting	$\frac{1}{2}$
point, If it burns or malts, these	$\frac{1}{2}$
all help identify plastics.	$\frac{1}{2}$
- Checking the gram on woods Soft	
Loods All generally dave Straight	
grains.	-
	$\frac{1}{2}$
- Checking the knots on woods, Soft	$\frac{1}{2}$
woods have much more knots than	-
hard woods	-
- Checking Colour of material metals	-
and woods have individual colours	
if on May don't have a finish	
So if Sanded It will be taisy to tell.	

ENTUR NUMBER CF	DO NOT WRITE IN THIS MARGIN
- the finish on a product can help identify	MARISIN
the material, for plastics some are rough	
and some have a string. Mcc surface from	
Sharan C	
Fair) - Manufacturing features like location	
pins can aid assembly as 1+ helps lim	
up the parts of to market easy to	
assembh	
- manufacturing features can aid assembly	
by bosses and webs they can help located	
WHAT no holes whilst helping keep a strong	
Structure	
76) - Manufactures Can USC processes that have	
less waste to reduce the impact on	ļ
the convironment and less Scapes means.	
less waste of 0.15 and Plastics.	
- hand and C	
- manufacturers Can use more eco-fresholy	$\vdash$
materials and reused one pather than	
and give new life to old battles and Musics.	
The state of the sale of the s	.1

ENTER HUMBER: OF	DO NOT WRITE IN THS
- manufacturers can use Sio degradable	MARGIN
Packaging of products which would mean	
less one time Use plasties that and	
up in land fills,	$\perp$
	1
- Manifactures Can turn off Machinery	-
when not muse, this though simple would	+
With less emittion of gasecs.	
	$\top$
8) - Sketch modelling Can be Used in	
Intral design Stages to make a fuck,	
Cheap, model this can be used to Show	-
SIMPLE design that Can't be drawn and	
is easy to see for all to understand	+
- block models can be used in	+
the refining Stages to Show to outer	
form and Shape, this can give Colour and	
design of labelling info for designers	
to see and refine	1
	-

ENTER NUMBER OF	BO NOT WRITE IN THIS
Prototypes Can be used in th	MARGEN
testing and Commimication Stages,	
It is a example of how a product	
would look and can be used to	
Show off how a produce will	
work-	
- CAD moduls can be used as refinement,	
testing or Communication, it can be rendered	
Into a poster or promographic, it can	
also be used to deside materials and	
Colours and even can be sent to manufacting	
T 3D adultate C d	
or Commincation, these are accorded that	
models printed through CAD, the	
CAD hite can be Sent all over the world	
to be promed anywhere, this canshows	2
crack designs of form and shope	
	-

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
- working model is used to refine	
and test Similar to prototyper but	
not as refined or final, these are	
functional models to ensure the	
function is working and gives	
designer info on the general function	
and refinements he should make	
- rapid prototyping can be used to	
Comminicate a design to buyers or	
invistors and Shows a detailed example	
of the product.	
	_
	$\neg$
	$\neg$