



Suggested Pages – Investigation

Page Title	Description	Marks
Initial Design ideas	<p>This is your chance to be creative! You don't have to be good at drawing (but it helps!) You must...</p> <ul style="list-style-type: none"> <input type="checkbox"/> Have a sketch of your design <input type="checkbox"/> Annotate it with the help of the box on the right <input type="checkbox"/> Respond to the design specification that you set <input type="checkbox"/> Explain all parts of your idea 	8
Review of design ideas	<p>This is where you would evaluate your ideas (all of them). There are different ways of evaluating. You could complete a SWOT Analysis, Test your ideas against the specification, Ask your users opinion. This is all to determine which idea you should take forward to develop – <u>This isn't about which one you like best!</u> SWOT Analysis - Consider ACCESS FM <u>Strengths</u>- What are the strengths of the design idea. <u>Weaknesses</u> – What are the area's of weakness <u>Opportunities</u> – Where are there opportunities to be unique in the relevant market? <u>Threats</u> – This could include safety, customer satisfaction, legislation, social, moral, cultural or environmental issues.</p> <p>Testing against Specification Use the specification you have written to compare the design idea to the ACCESS FM points.</p> <p>Stakeholders opinion Where you have more than one party invested in the success of your design, you should ask opinions of all of them. Summarise on a page and see if they all agree on one idea or strongly disagree on the same things.</p>	8
Development of design idea	<p>Having reviewed your design ideas, you have a good understanding of which ideas are most suitable for your user. It is important to select the ideas that will best solve the problem, rather than the one you like the most. <u>THIS IS NOT ABOUT YOU!</u> During your development you could...</p> <ul style="list-style-type: none"> <input type="checkbox"/> Draw alternative versions of your idea <input type="checkbox"/> Make a cardboard model of the entire object to gauge the size and scale of it <input type="checkbox"/> Model a small part (Example – the handle) and test with your user <input type="checkbox"/> Create a CAD model <input type="checkbox"/> Test materials doing the task you want them to do (Example – bending acrylic) <input type="checkbox"/> Test the processes you want to use (Example – Working out what power/speed you need for the laser cutter) <input type="checkbox"/> Take apart a product which is similar to your idea, or has the same mechanism in order to better understand how it works 	6
Review of chosen design idea	<p>You've finished your development, you're happy with the design you've chosen – now it's time to start planning to make it. Start by...</p> <ul style="list-style-type: none"> <input type="checkbox"/> Giving your models/prototypes to your user, ask them to use it and take photos. <input type="checkbox"/> Ask your user for their honest opinion, summarise and write what you've learnt in your sketch book <input type="checkbox"/> Compare your design to the specification – are there any points it hasn't met? <p>You need to prove that this idea was the best idea</p>	6
Development of chosen design idea	<p>Your user may not be 100% happy with it, in which case you'll need to develop your idea further. These pages should be all about you planning and preparing to make your work. By the end of this you should...</p> <ul style="list-style-type: none"> <input type="checkbox"/> Know exactly which materials to use <input type="checkbox"/> Know exactly which processes you use <input type="checkbox"/> Know the exact measurements of every part of your design <input type="checkbox"/> Know how it will be assembled <input type="checkbox"/> Know which components, adhesives, finishes you will be using. 	6
Communication	<p>You must...</p> <ul style="list-style-type: none"> <input type="checkbox"/> Use different media (colouring pencils, watercolour, acrylic) <input type="checkbox"/> Write clearly <input type="checkbox"/> Use correct SPaG <input type="checkbox"/> Use technical terminology (Not just "wood" "metal" or "plastic") 	8