

# Creating the Solution

**Constructs a detailed and logical plan**, which **describes** the efficient **use of time and resources, sufficient for peers to be able to follow to create the solution.** Follows the plan to **create** the solution, which functions as **intended** and is presented appropriately

Resources examples:

*Product materials- hardwood, nylon or cornstarch;*

*Product tools - hand tools, machinery, CAD software and CAM hardware.*

*Digital materials - text, fonts, images, audio, video, animation, sprites and icons.*

*Digital tools -software and hardware (input, processing and output devices).*

Task	Tools / Equipment	Materials	Time or Date	Completed (Checkmark)

<p>Which steps might take more or less time that you expect?</p> <p>Does your plan contain a sequence of logical steps?</p> <p>(Circle one)    YES or NO</p>
<p>What resources did a friend explain needed explaining? (Ask a friend what other resources might be needed or clarified)</p>  
<p>When does your product need to be completed by?</p> <p>Have you made sure you have enough time to complete your product?</p> <p>(Circle one)    YES or NO</p>
<p>How much time did you allot for practicing a new skill?</p> <p>Have you given time for practicing or learning a new skill?</p> <p>(Circle one)    YES or NO</p>
<p>How much extra time do you have built into the plan?</p> <p>Have you allowed extra time in case something goes wrong?</p> <p>(Circle one)    YES or NO</p>

What other ways might you create the solution if you do not have enough time?

What other ways might you create the solution if you do not have the proper resources?

What other ways might you create the solution if you do not know how to make it?

Have you planned for testing at appropriate times in the manufacturing process?

(Circle one) YES or NO

Where is this explained in the plan?

Add Pictures (if it is a 3D product, try to get all important angles) or Screenshots of your project here or as attachments in the Appendix

**Demonstrates excellent** technical skills when making the solution. (Ask a teacher to examine your product/solution)

What feedback have teachers given you about your product?

*(Ask a classmate to examine your product/solution)*

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Fully **justifies** changes made to the chosen plan when making the solution.  
*(Changes to the plan are usually expected, especially after feedback has been solicited)*  
Which of the following needed to be changed?

<b>Plan Changes</b>	<b>Explanation of WHY change was made</b>
Task changes	
Tool / Equipment changes	
Materials changes	
Time or Date changes	

Fully **justifies** changes made to the chosen design when making the solution.  
(Changes to the plan are usually expected, especially after feedback has been solicited)

**Summary of specifications changes**

**Explanation of WHY change was made**

Specification 1 change

Specification 2 change

Specification 3 change

Specification 4 change

Specification 5 change

Specification 6 change

Specification 7 change

Specification 8 change

**Other Change reasons:** (You might add pictures or diagrams to explain the need for the changes)