

## Criterion D: Evaluating

In Criterion D, you will evaluate your 3D product. You will reflect on what was done better and what could be improved.

Assessment Criterion D:

**Strand 1:** Outline simple, relevant testing methods, which generate data, to measure the success of the solution

**Strand 2:** Outline the success of the solution against the design specification

**Strand 3:** Outline how the solution could be improved.

**Strand 4:** Outline the impact of the solution on the client/target audience

**Task 1- Outline simple, relevant testing methods, which generate data, to measure the success of the solution- You can use the internet to find some examples of tools or methods used to test 3D product.**

How would you test or know;	
If the product looks good?	To know if the product looks good, there are many factors that needs to be evaluated. How I tested my product and how I would recommend others to do it is, looking at the Aesthetics of the product (including appearance, size/color/ shape) I would make sure that all of those factors in aesthetics are to the best standard and make sure the things like the color scheme works well together. Once the product is created, I would take some time to look at the colors, size, shapes and other details and adjust things to make it look as aesthetically pleasing as possible. I would also ask a peer or family member for suggestions while I am creating the 3D product. Once these factors are evaluated it will be appealing to others and they will be more interested in the product.
If the product functions as intended?	This can be evaluated in many ways, for example letting others test your product out and test the features and check if they function correctly to help my target audience. How I made sure that all my functions were working as intended is that I followed previous plans like the logic plans and design specification that I have made in Criterion A and B. I will take a look at the sections where I wrote about Functions and features and I will read the explanations and plans I wrote to make sure I add all my features and include the functions so that I can create it correctly on tinkercad. I would also look at the section Target audience as it could help me with the functions and features. As a said, I would let other test it out and give feedback which I think is very effective and helpful when creating the main features for a product.

## Task 2- Outline the success of the solution against the design specification

### Self-Evaluation

Copy and Paste one of the emoji 🤔 😞 😐 😊 😄” in the spaces below;	
Planning and carrying out the research by looking at existing 3D products on the internet. Criterion A	😊
Developing clear diagrams of the ideas/sketches. Criterion B	😊
Demonstrate your technical skills when creating the product. Criterion C	😊

I have added the last emoji for Criterion A as think I did well, and I had a very detailed plan and answered all the questions about my smart hospital bed, and I have written about existing products as well as created a clear SWOT analysis. I have added the second last face for Criterion B as I have clear diagram and sketches of my product however, I think the design and overall structure of the sketches could have been better to help me in Criterion C while creating my product as well as I had to change many things while I was creating my smart hospital bed on tinker cad. I put the last emoji for Criterion C as I think I have made a very straight forward and clear logical plan to help me create my product, I then showed all the things I have done to create a product step by step, I then presented my product using clear snippets and screenshots and I have included the link. Then created multiple tables showing and indicating all the changes made from my sketch in Criterion B to my 3D product in Criterion C (like the positions and placements of certain features as well as the color scheme) and explained why I have made those changes and why it would be the best decision for my target audience and for the overall appearance.

### Peer Evaluation

Ask your family Member or classmates for feedback on your product and complete the table with their feedback. You will have to include the name of the evaluator.

On a scale of 1 to 5, (1= poor, 2= fair, 3= good, 4= very good, 5= Excellent)  
Highlight the rate given by one of your family Member or classmates

Evaluator's name: My brother (Youssef Zeidan 10C)	Highlight the rate given				
Design Idea	1	2	3	4	5
Benefit (fit for purpose?)	1	2	3	4	5
Technical Skills (making hole, grouping and smoothing edges)	1	2	3	4	5
Appearance of the product	1	2	3	4	5
Functioning of the product as intended	1	2	3	4	5
<b>Suggested Improvements:</b> I think at the beginning of the assessment she should have chosen a better idea for the tinker cad because I feel a hospital bed is very basic and she could have done better with a different and unique idea. She also could have improved the finishing on the product itself and shown better technical skills because there were some things that could be improved such as the couch which was not straight and connected or merged together. Other than that, all the other factors were good like the benefit for the target audience as the product very helpful to them and the appearance of the product was really good as well as the functions of the product. the product and the different functions intended. Overall, I think she did a really good job with everything.					

Evaluator's name: My brother (Ali Zeidan 10A)	Highlight the rate given				
Design Idea	1	2	3	4	5
Benefit (fit for purpose?)	1	2	3	4	5
Technical Skills (making hole, grouping and smoothing edges)	1	2	3	4	5
Appearance of the product	1	2	3	4	5
Functioning of the product as intended	1	2	3	4	5
<b>Suggested Improvements:</b> I believe the entire idea is of good purpose and has good intentions. Although it lacks scientific and technical innovation. This product is completely out of reach and is not realistic in our day and age. But her concept is of high quality and is helpful. Seeing this technology, down the line, will be a huge steppingstone for humanity and will save millions of lives. Her technical skills on Tinker cad is commendable as the work produced is of high quality and would be a great visual representation of the product shown. Her highest point was the functions of the product, design idea and benefit. She needs to work on the technical skills used to create the product and the appearance of the product could have been better.					

**Task 3: Outline how the solution could be improved.**

Reflect on your work, feedback and suggest ways your product could have been improved if you were to do this task again.

**What went well?**

I think I did really well on planning and carrying out the research by looking at existing 3D products on the internet which was Criterion A. I am also satisfied with how my product came out for the most part. In my opinion I think I did really well on making the smart hospital bed beneficial for my target audience which is Sub Saharan region of Africa where they do not prioritize health care and sanitation. My smart hospital bed and my features will help them and improve their health care by a lot especially the early diagnosis machine as diseases spread very quickly in that region and they usually don't realize they are sick, so they get diagnosed very late which leads to their health detreating. Therefore, my early diagnosis machine will save lives. My product is also reasonably cheap, so it makes it even better and more accessible to developing countries. Other thing that went well was the functions. The functions of my product work as intended and I know this as I have let many people test it out on tinkercad.

**What changes would you make to create a better product?**

If I were to create and redo this product all over again, I would have created better sketches as it would have really helped me when I create my product on tinkercad as I had to change a lot of things from my sketch and it was very time consuming. I would have also spent more time getting use to tinkercad as I struggled when I was creating my product and I didn't show good technical skills. I would have also planned and sketched the structure of my diagnosis machine, alarm and other features better as it doesn't look like it was well planned out in my 3D product and I didn't know how to place them and how they would even look like so I would have spent more time in my sketches and planning out the appearance of my product instead of planning written instructions and they were not very helpful and it let me down in Criterion C. My idea was good however I could have also thought about how this idea is not very realistic as an early diagnosis machine is completely out of reach and is not realistic in our day and would definitely not be available for developing countries very easily and they probably would not have access to it anytime soon even though they suffer from late diagnosis of diseases which leads to negative health outcomes.

## Task 4: Outline the impact of the solution on the client/target audience

Ask your peers or family members and identify or predict the impact that the product will have on a client or target audience life or community, When explaining you must refer to the reason why you decided to make the product?

### Outline a detailed response.

Is the product solving the target audience's problem?	Yes, this product is definitely solving the issue in developing countries especially Sub Saharan Countries. As I have said, my early diagnosis machine will solve the issue of late stage diagnosis as it is very common in these countries which will lead to really bad health problems. Therefore, my smart hospital bed and main feature will help lots of people who live in developing countries and who don't have good healthcare this is because it will save lives and provide basic healthcare to the patients in the country.
How does the product make people's lives easier?	This product will make my target audiences life easier as it is very accessible to them and it is at a reasonable price and it will be accessible to all public hospitals in an any country of that region. Not only will this make it easier for them, they will finally get good healthcare to treat their patients and avoid negative health outcomes as the early diagnosis machine will diagnose diseases before later stages of that disease comes about. Therefore, my hospital bed will be able to save lives as well as provide basic needs for developing countries