

Redesigning the Hospital Gown [INNOVATOR]

| PROJECT STEPS | WAYS OF PROBLEM SOLVING AND SHARING YOUR PROJECT | | |
|--|---|--|---|
| Dream It! | THINK BIG My solution is unique to me, but I don't know how others have solved the same problem | THINK BIGGER I have researched other solutions to my problem to get a better idea of how to make an even better solution | THINK BIGGEST I have researched other solutions and drawn from different disciplines such as science, art and history to gain inspiration |
| Draw It! | EXPLORING My model or drawing can be explained by the makers | EVOLVING My model drawing can be understood by anyone because it is clearly labeled, to scale | EXPANDING I used 3D sculpting tools, like TinkerCAD, Fusion 360 |
| Build It! | EXPLORING This is all new for me, I am trying new tools or materials and I am not sure what will happen | EVOLVING I am experienced with the tools and materials, I am able to make several iterations of my idea with ease | EXPANDING I am experienced with the tools and materials, I am able to make several meaningful iterations of my idea based on testing and feedback |
| Share It! | PEER CRITIQUE Share your project with someone who did not make it, ask them for their feedback and suggestions on how to improve the design | COMMUNITY SHOWCASE Share your project in a school wide or online family share showcase where you can explain the process of how you made your design | DIGITAL CITIZEN Why not share things you have made that you are proud of, like your latest project, slime recipes or invention? TikTok, Instagram, Tumblr and Twitter are good places to start if you are over 13 |
| Expand It! | SOLOIST I took my design and tried various changes to its design based on my testing | COLLABORATOR After documenting, testing, and listening to the feedback of others, I changed my design and it is better with the help of others | INNOVATOR I created something that we have never seen or mashed together different crazy Ideas to make something new. |
| Makers Choice Is there a criteria that you feel your project or efforts should be evaluated on that is not listed yet? If so, write it here: | | | |

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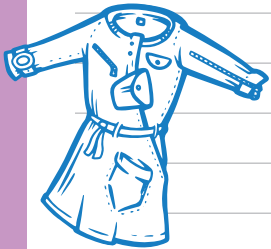
RATE THIS PROBLEM:

How hard was this project over all? (Check appropriate box)

| Task Number | Difficulty Level |
|-------------|------------------|
| 1 | EASY |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | HARD |

REFLECT ON YOUR PROBLEM:

What made it hard (lack of ideas, knowledge, time, materials, help, tools, etc.)?



All designers and engineers get stuck when making something for the first time. When I got stuck or needed inspiration what did I do?

- ☐ Did I use a tutorial? (listen and watch to learn)
- ☐ Did I discuss my ideas with others in person or online? (discuss to learn)
- ☐ Did I start to build even before I totally knew what I was doing? (tinker to learn)

1. The best designed objects take into account the user. What ways do designers hear, notice or record the needs of their user?
2. The material that a hospital gown is made of matters. What fabrics are typically used and why? What alternative materials might exist that are safe to use?
3. The design of the original hospital gown is based on the needs of the doctor and the hospital. What needs do patients have that the gown may or may not be meeting? How did your redesign address those patient needs?