

Engineering Never Ends!

If you were going to keep making your prototype better, what modifications would you make next and why? _____

What other ideas do you have for night lights you could make using the wireless electricity module? _____



Good Night Light

Engineer: _____

Additional Engineering Team Member(s)

Development of this STEM Challenge support by:



Designed by Anna Heyer, Sherrie Dennis, and DaNel Hogan

More STEMAZing Sciening and Engineering Journals,
like this one, can be found here:
<https://stemazing.org/stemazing-sciencing-and-engineering-journals/>



This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 Int'l License.

Who has a problem?

Young (and older) people who are afraid of the dark



What is the problem?

Someone who is very afraid of the dark can only fall asleep if their room has some soft lighting.

Engineering Design Challenge:

Using a wireless electricity module and other supplies, design a fanciful night light, which will provide soft lighting for a person who is afraid of the dark.

Engineering Design Story

Who came up with the original idea? _____

How did you work as a team to develop the idea for your prototype plan? _____

Describe something your engineering team tried that did not work. What was your solution? _____

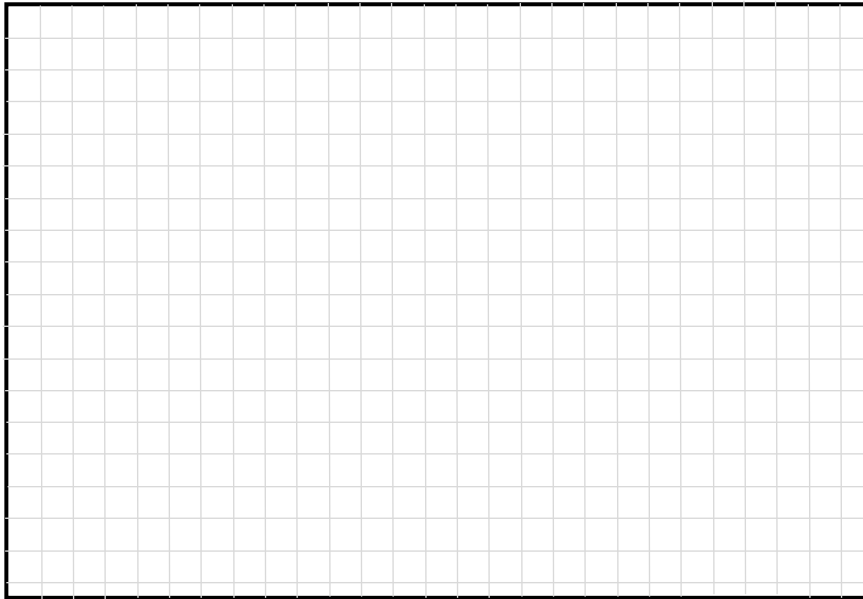
What other idea from your engineering team's Idea Post brainstorming would you like to prototype and why?

Marketing

Name of Product _____

Slogan _____

Company or Product Logo



Key Features _____

Criteria (requirements for success)

- Night light can be turned on and off.
- Night light provides soft lighting to a dark room
- Night light is a fanciful design and visually appealing to a small child
- _____
- _____
- _____

Constraints (limitations)

- Uses only supplies from the materials list.
- Is smaller than a 5 inch x 5 inch x 5 inch cube
- _____
- _____
- _____

Time Limit (due date): _____

Fanciful ideas to consider _____

Frightening ideas to avoid _____

Left blank for optional engineering design process iterations and/or peer or customer review.

Left blank for optional engineering design process iterations and/or peer or customer review.

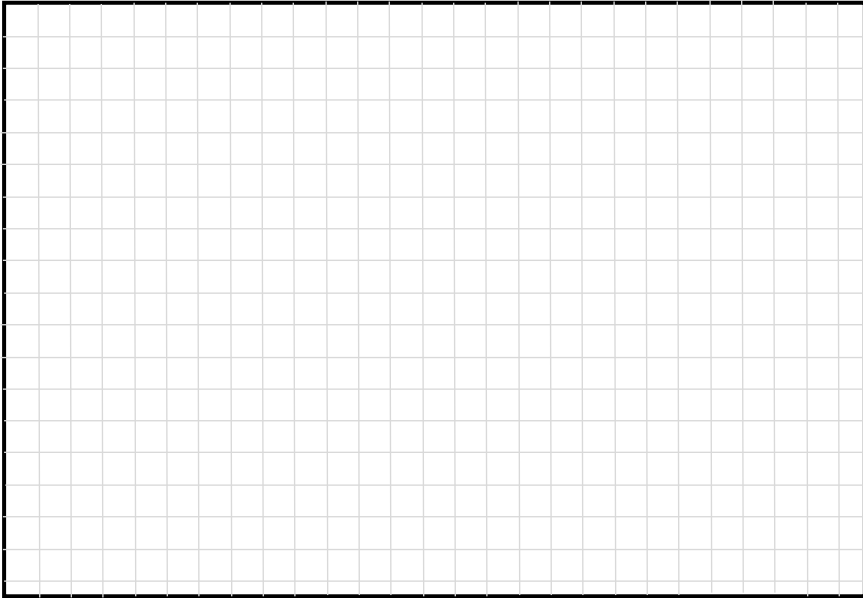
Brainstorming Idea Post

Place Idea Posts here with your favorite idea on top.

Place Idea Posts here with your second favorite idea on top.

Prototype Plan

Draw and describe what your engineering team is going to make using the waste stream you selected. Be sure to label your drawing.



Actual Prototype

Draw or paste a picture of your actual prototype below. Be sure to label your drawing/photo. Describe modifications you made to your prototype plan.

