

2023 Engineering Journal: Wind Turbine

Name:

Core:

Purpose: Design your initial tower prototype and your first blade prototype.

You should clearly show:

- 1.) **Tower:** Dimensions in cm of the height and base area. Include material used.
- 2.) **Blade:** Dimensions in cm of the length and width of your blade. Include material used.

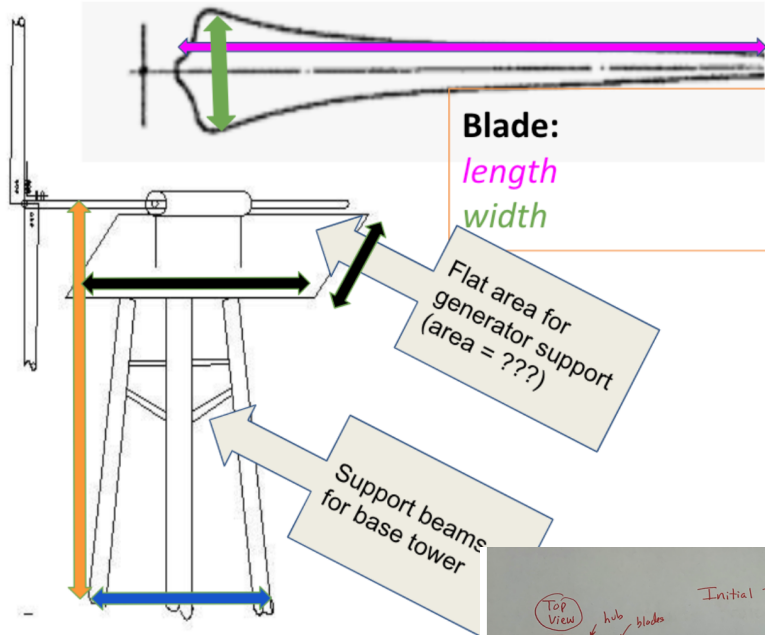
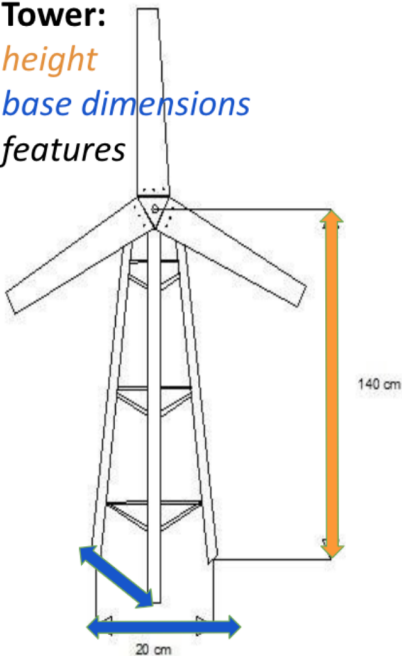
Each student will have their own journal entry. Post the image to Google Classroom when completed.

Exceed	Meet	Partially Meets	Does Not Meet
*Fulfills "Meets" and... *Tower structure and design explained why used. *Blade design explained why used.	*Correct units used. *Required dimensions of tower & blade clearly shown. *Materials used detailed.	*Missing $\leq 50\%$ of the units or dimensions.	*Missing $\geq 50\%$ of the units or dimensions.

Initial Tower & Blade Design Plan

Tower:

height
base dimensions
features



Blade:
length
width

Flat area for generator support (area = ???)

Support beams for base tower

