

# TESTING SHEET

## Blade Length Station

Which design do you think is going to work best? And why? (Hypothesis)

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Test Results

DESGIN	VOLTAGE (V)

Did it work the way you thought? Why or why not? (Conclusions)

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## Blade Material Station

Which design do you think is going to work best? And why? (Hypothesis)

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Test Results

DESGIN	VOLTAGE (V)

Did it work the way you thought? Why or why not? (Conclusions)

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**Blade Number Station**

Which design do you think is going to work best? And why? (Hypothesis)

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Test Results

DESIGN	VOLTAGE (V)

Did it work the way you thought? Why or why not? (Conclusions)

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**Blade Pitch Station**

Which design do you think is going to work best? And why? (Hypothesis)

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Test Results

DESIGN	VOLTAGE (V)

Did it work the way you thought? Why or why not? (Conclusions)

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### Gear Box/Ratio Station

Which design do you think is going to work best? And why? (Hypothesis)

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Test Results

DESIGN	VOLTAGE (V)

Did it work the way you thought? Why or why not? (Conclusions)

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### Generator Station

Which design do you think is going to work best? And why? (Hypothesis)

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Test Results

DESIGN	VOLTAGE (V)

Did it work the way you thought? Why or why not? (Conclusions)

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# ***DESIGN YOUR OWN TURBINE***

## **Generator**

Will you create your own or use the KidWind standard generator? \_\_\_\_\_

*If you will create your own:*

Number of magnets: \_\_\_\_\_ Gauge of copper wire: \_\_\_\_\_ Number of coils: \_\_\_\_\_

## **Gearbox**

Will you use a gearbox? \_\_\_\_\_

If yes, what gear ratio will you use? \_\_\_\_\_

## **Blades**

Number of Blades: \_\_\_\_\_ Length of Blades: \_\_\_\_\_ Distance from  
hub to blade: \_\_\_\_\_

Pitch of Blades: \_\_\_\_\_ Blade Material: \_\_\_\_\_

Describe any other special design features:

Draw your design ideas below: