

TESTING SHEET

Blade Length Station

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

Test Results

DESGIN	VOLTAGE (V)

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

Blade Material Station

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

Test Results

DESGIN	VOLTAGE (V)

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

Blade Number Station

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

Test Results

DESIGN	VOLTAGE (V)

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

Blade Pitch Station

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

Test Results

DESIGN	VOLTAGE (V)

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

Gear Box/Ratio Station

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

Test Results

DESIGN	VOLTAGE (V)

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

Generator Station

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

Test Results

DESIGN	VOLTAGE (V)

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

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: