

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

## Design Your Own Blades

Design

1. Sketch and describe the design of your blades (length, shape, number, materials, etc).
  
  
  
  
  
  
  
  
  
  
2. Explain why you designed your blades this way. Use data from "Which Blades Are Best" Lesson (if completed) to support your initial design.

## Test Run 1

Test your blades 1 meter from the fan for 30 seconds and record your data below.

**Power=Voltage × Amps**

	VOLTAGE	AMPERAGE	POWER OUTPUT
<i>High Wind Speed</i>			
<i>Low Wind Speed</i>			

## Modifications

3. What modifications could you make to your blade set to increase the power output?
  
  
  
  
4. Why do you think these blades would work better?

## Test Run 2

Test your modified blades 1 meter from the fan for 30 seconds and record your data below.

	VOLTAGE	AMPERAGE	POWER OUTPUT
<i>High Wind Speed</i>			
<i>Low Wind Speed</i>			





Name \_\_\_\_\_

Date \_\_\_\_\_

Class \_\_\_\_\_

## Voting form

Use these forms to vote on other students' blade designs.

QUALITY OF CONSTRUCTION	
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	

INNOVATION	
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	

QUALITY OF CONSTRUCTION	
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	

INNOVATION	
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	

QUALITY OF CONSTRUCTION	
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	

INNOVATION	
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	

QUALITY OF CONSTRUCTION	
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	

INNOVATION	
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	

QUALITY OF CONSTRUCTION	
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	

INNOVATION	
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	

QUALITY OF CONSTRUCTION	
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	

INNOVATION	
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	