

# WIND POWERED DEVICE EVALUATION

V.Ryan © 2000 - 2009

On behalf of The World Association of Technology Teachers

## W.A.T.T.



World Association of Technology Teachers

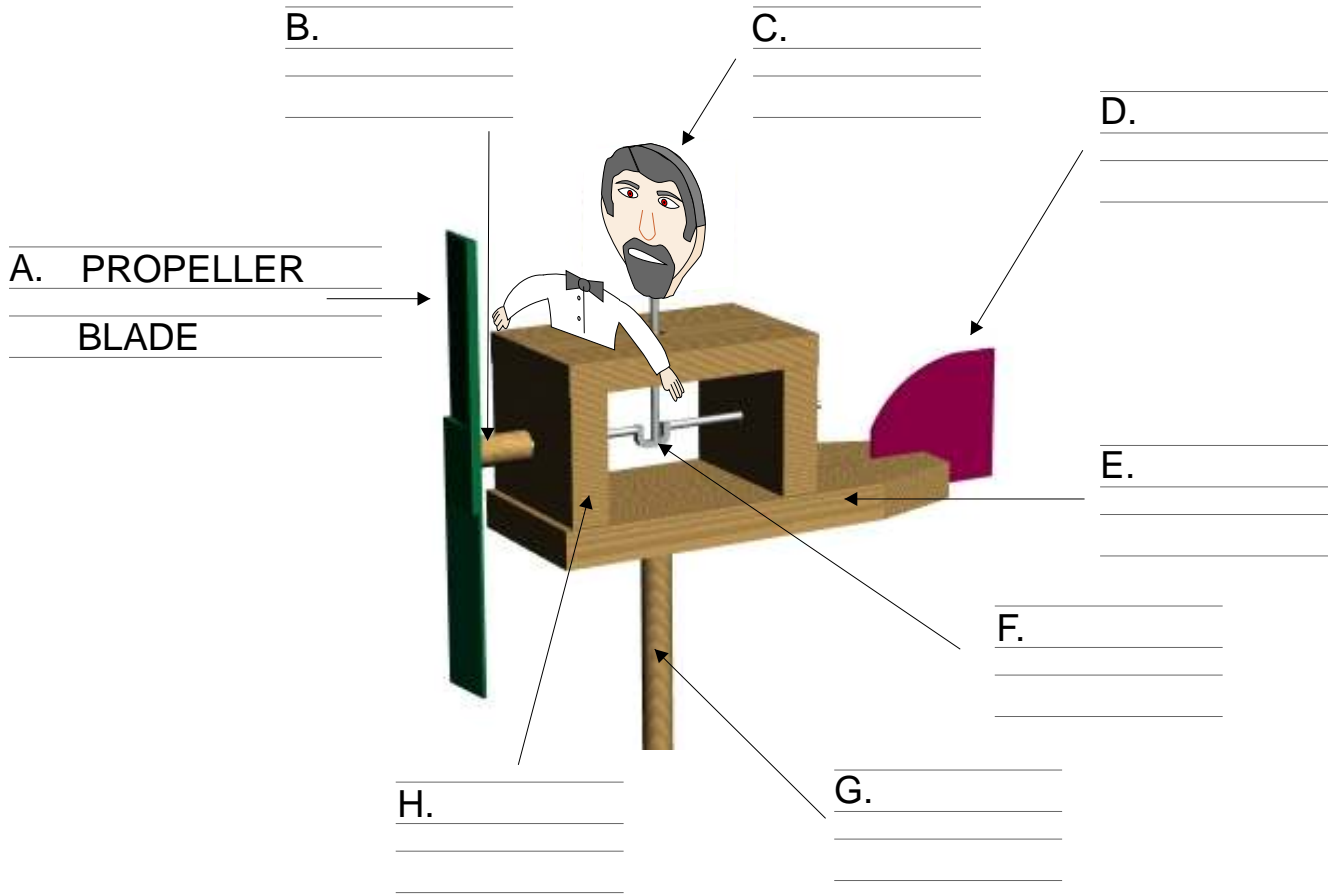
This exercise can be printed and used by teachers and students. It is recommended that you view the website ([www.technologystudent.com](http://www.technologystudent.com)) before attempting the design sheet .

THESE MATERIALS CAN BE PRINTED AND USED BY TEACHERS AND STUDENTS.  
THEY MUST NOT BE EDITED IN ANY WAY OR PLACED ON ANY OTHER MEDIA INCLUDING WEB SITES AND INTRANETS.  
NOT FOR COMMERCIAL USE.  
THIS WORK IS PROTECTED BY COPYRIGHT LAW.  
IT IS ILLEGAL TO DISPLAY THIS WORK ON ANY WEBSITE/MEDIA STORAGE OTHER THAN [www.technologystudent.com](http://www.technologystudent.com)

# PRODUCT EVALUATION

V.Ryan © 2009 World Association of Technology Teachers

1. Look carefully at the wind powered object drawn below. Name each of the parts and include an alternative name. The name propeller has been displayed together with an alternative name, blade.

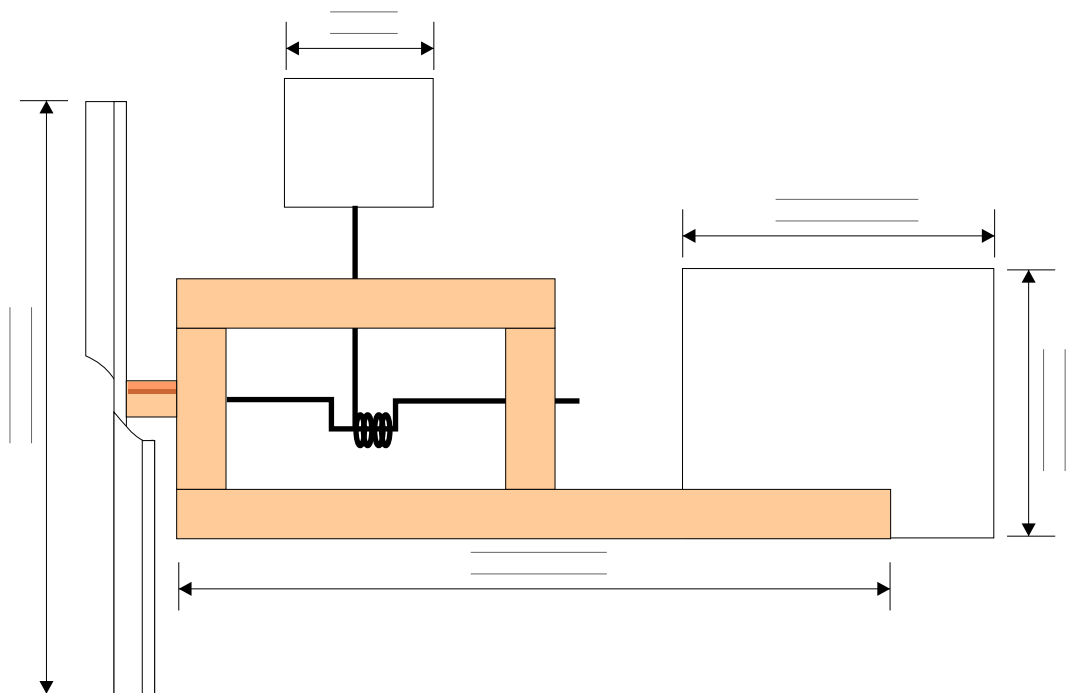


PROPELLER    MECHANISM    SIDES    SWIVEL    CRANK    DOWEL    MODEL  
 BASE    CHARACTER    SPACER    BLADE    ENDS    SUPPORTS    TAIL  
 WASHER    SHELF

2. Which of the following materials have been use? Draw a line under each of the materials used.

POLYSTYRENE    MAHOGANY    PVC    PVA    OAK    DOWEL    PERSPEX  
 COPPER    PINE    STEEL

3. Using your wind powered model, add the missing measurements to the drawing opposite. (Remember to use millimetres).



# PRODUCT EVALUATION

V.Ryan © 2009 World Association of Technology Teachers

4. Spin the propeller by hand. Which phrase describes how well it rotates? Add your own statement underneath, if you wish.

SMOOTHLY      SOMETIMES STICKS      TOO LOOSE      DOES NOT WORK  
SOMETIMES WORKS

---



---

5. How accurate were the following aspects of your practical work? Complete the table below by ticking the appropriate box.

	VERY ACCURATE	QUITE ACCURATE	LACKS ACCURACY	POOR
MEASURING / MARKING OUT				
CUTTING AND SHAPING				
DRILLING				
DRAWING / COLOURING				
GLUING / ASSEMBLY				

6. How could you improve your practical work?

MEASURING / MARKING OUT \_\_\_\_\_  
\_\_\_\_\_

*Ruler      mm      accurately      taking care      double check*

FRETSAW USE \_\_\_\_\_  
\_\_\_\_\_

*Goggles      masking tape      taking care      concentrate      take time      safety*

DRILLING MACHINE \_\_\_\_\_  
\_\_\_\_\_

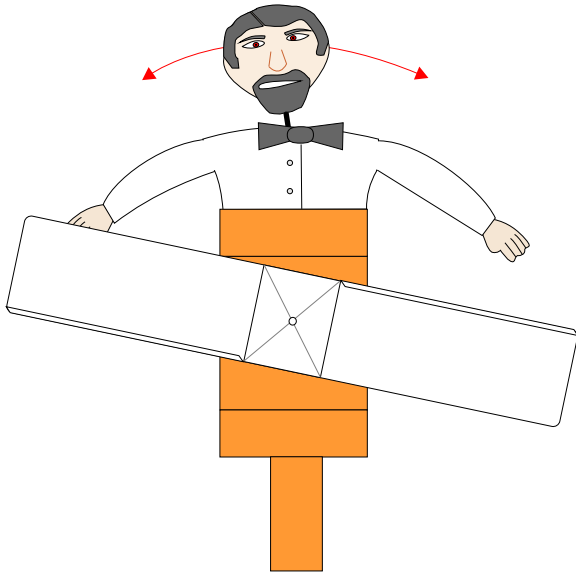
*Goggles      hand vice      drill slowly      concentrate      guard      safety*

BUFFING / POLISHING \_\_\_\_\_  
\_\_\_\_\_

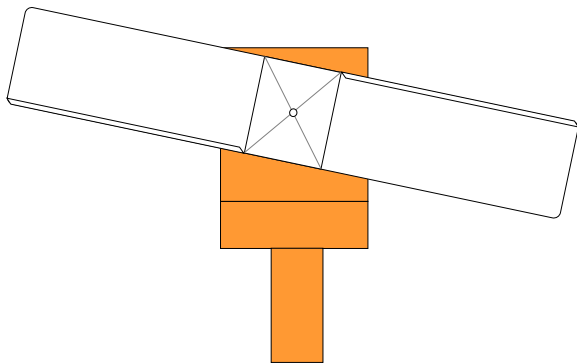
*Goggles      polish      mops      concentrate      loose clothing      safety*



### SAMPLE DESIGN



ADD YOUR DESIGN BELOW



## MY PRODUCT EVALUATION

7. What do you consider to be successful regarding the final wind powered device you made?

---

---

---

---

---

---

---

---

---

---

8. What aspects of your project need to be improved?

---

---

---

---

---

---

---

---

---

---

## EVALUATION