**Facultad de Ingeniería -Técnico en Mantenimiento Industrial**

Name:

Date:

**Test 1 (Mock Exam)**

1. **HAND TOOLS**

**http://www.enchantedlearning.com/hgifs/Hammer.GIF**

**Circle the odd word out**

washers steering wheel bolts spanner

screwdriver nails hammer elbow

skateboard pliers saw shovel

chisel car scissors screws

drill funnel forklift truck level

1. **MAKE SENTENCES ABOUT THE LOCATION OF:**
2. mouse **2.** computer **3.** right-hand speaker **4.** left-hand speaker **5.** Keyboard **6.** screen



1. … …………………………………………………………………………………………
2. ……………………………………………………………………………………………
3. ………………………………………………………………………………………………
4. ……………………………………………………………………………………………
5. ………………………………………………………………………………………………
6. ……………………………………………………………………………………………..
7. **ACTIONS**

**How to start a car:** Read theinstruction (a-h) for starting a vehicle. Put the sentences into the correct order.

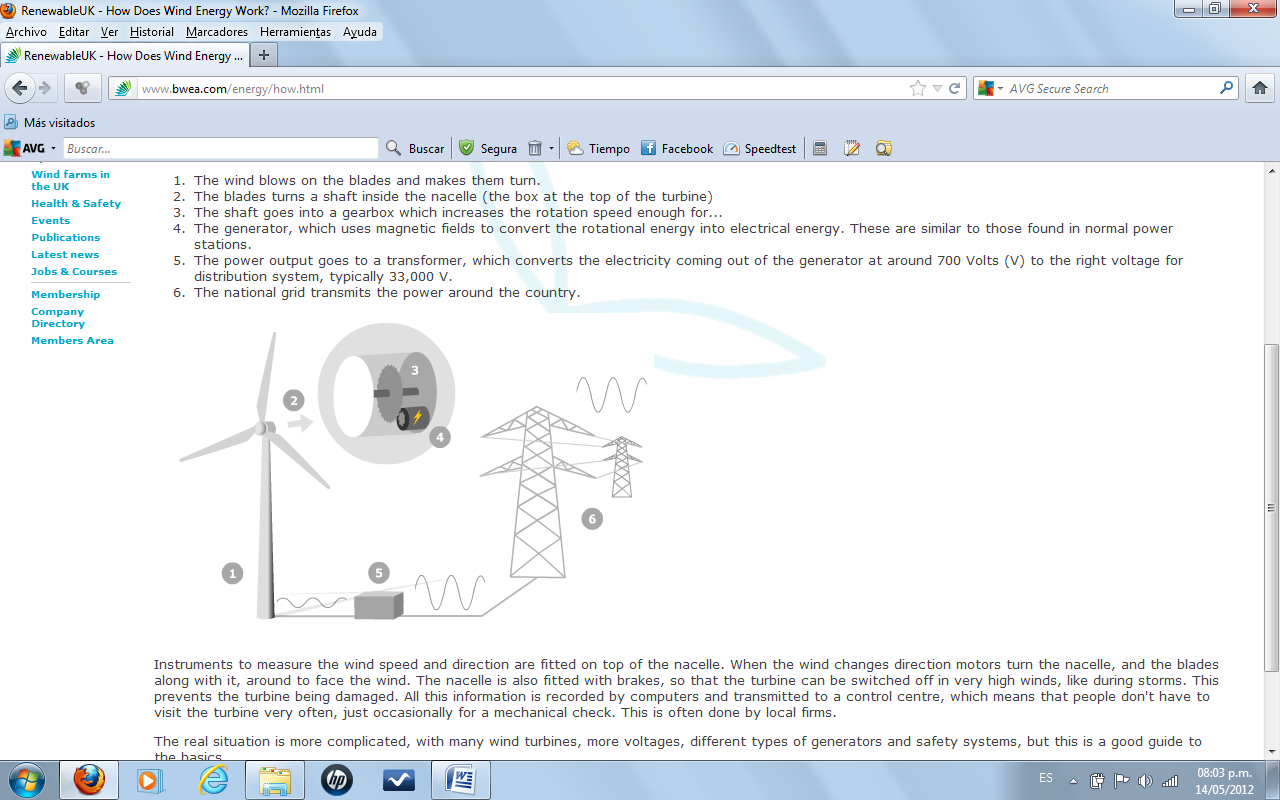
1. press down on the clutch pedal, again
2. fasten your seatbelt
3. twist the key using your fingers and the car starts
4. get into the vehicle
5. change into first gear and you are ready to go
6. insert the key into the ignition barrel
7. change into neutral gear
8. Press down on the clutch pedal

**Flow: How Does Wind Energy Work?**

The diagram below shows a simplified version how a wind turbine converts the kinetic energy in the wind to electrical energy.

**Complete the text explaining how kinetic energy in the wind is converted into electricity**. Circle the correct verb

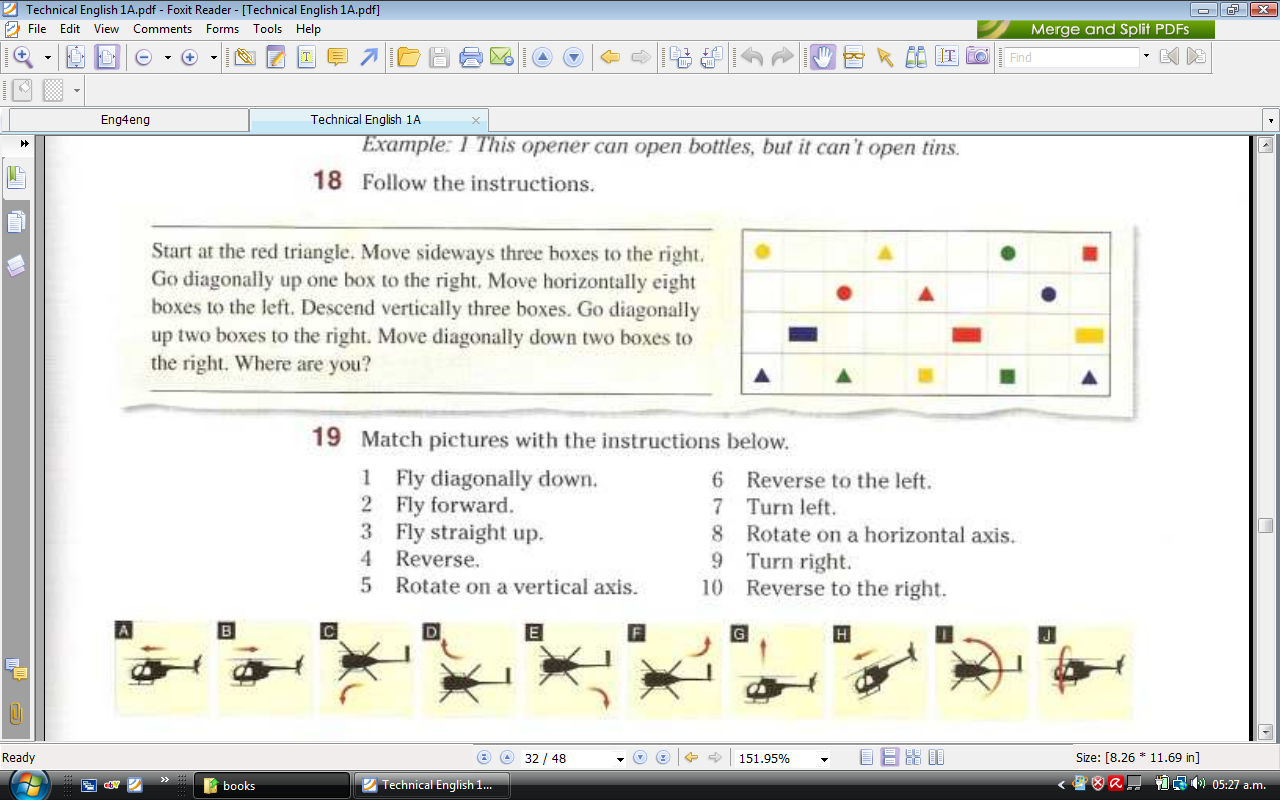
The wind (**blows/flows**) on the blades and makes them (**fly /turn**). The blades (**pull/turn**) a shaft inside the nacelle (the box at the top of the turbine). The shaft **(goes/opens)** into a gearbox which (**increases/reduces)** the rotation speed enough for the generator, which uses magnetic fields to **(convert/move)** the rotational energy into electrical energy.



**D- Instructions**

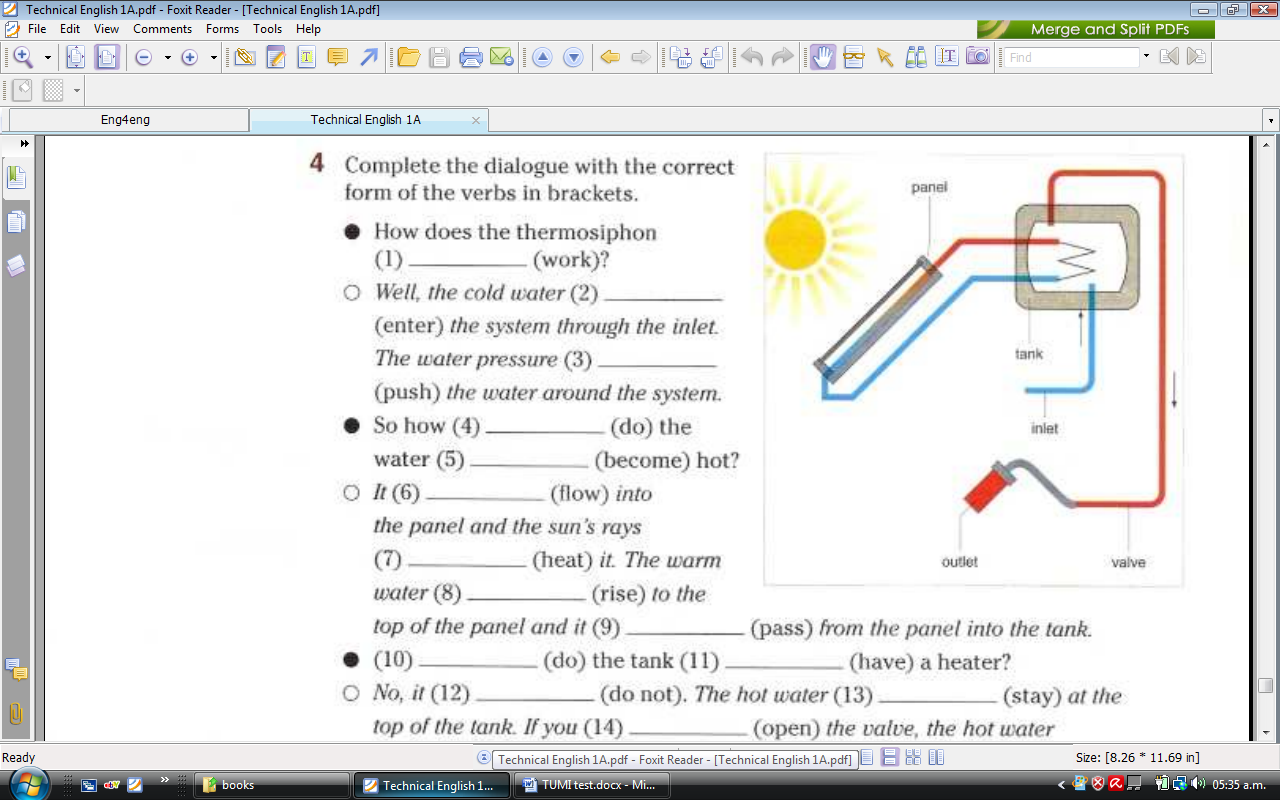
**Read the text and follow the instructions.**

Start at the red triangle. Move sideways three boxes to the right. Go diagonally up one box to the right. Move horizontally eight boxes to the left. Descend three boxes. Go diagonally up two boxes to the right. Move diagonally down two boxes to the right. Where are you? Circle the item you arrive at the end.



**How does a thermosiphon work? Complete the text using the words from the box.**

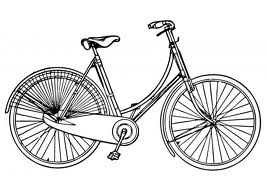
*stays - rises - valve –inlet - flows – heat – passes – tank - open – outlet – enters - warm water - panel – tank- flows – pushes*



1. First, the cold water\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the system through the\_\_\_\_\_\_\_\_\_.
2. The water pressure \_\_\_\_\_\_\_\_\_\_\_\_\_\_the water around the system.
3. Then, it \_\_\_\_\_\_\_\_\_\_\_ into the panel and the sun´s rays \_\_\_\_\_\_\_\_\_\_\_\_it. The\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_to the top of the \_\_\_\_\_\_\_\_\_\_\_ and it \_\_\_\_\_\_\_\_\_\_\_ from the panel into the \_\_\_\_\_\_\_\_\_\_.
4. The hot water \_\_\_\_\_\_\_\_\_\_\_\_\_\_ at the top of the \_\_\_\_\_\_\_\_\_\_\_.
5. If you \_\_\_\_\_\_\_\_\_\_ the \_\_\_\_\_\_\_\_\_\_, the hot water \_\_\_\_\_\_\_\_\_\_\_\_\_ from the top of the tank to the \_\_\_\_\_\_\_\_\_\_.

**E- Assembling.**

**How to Assemble a Bike. Identify the parts.**

Handlebar tyres seat frame pedals fork reflectors wheel spokes front brake

**Complete the instructions using the following words:**

slide (2) – adjust (2)– tighten (2) – straighten – put – attach –

pull – lift – spin -

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the handlebars onto the frame.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the height of the handlebars and \_\_\_\_\_\_\_\_\_\_\_\_ the bolt just until it won't move. You'll need to \_\_\_\_\_\_\_\_\_\_\_\_\_\_the handlebars after the front tire is on and then tighten the bolt all the way.
3. \_\_\_\_\_\_\_\_\_\_\_ the seat post into the bike frame if not already installed. \_\_\_\_\_\_\_\_\_\_ the height, check that it's straight.
4. \_\_\_\_\_\_\_ the front tire on the forks.
5. Straighten the wheel.
6. \_\_\_\_\_\_\_\_\_ the reflectors to the wheel spokes with a screwdriver.
7. \_\_\_\_\_\_\_\_\_ the pedals and \_\_\_\_\_\_\_\_\_\_ the bolts.
8. \_\_\_\_\_\_\_\_ the front brake several times. \_\_\_\_\_\_\_\_\_ the bike and \_\_\_\_\_\_\_\_ the front wheel to make sure it spins freely.