

Mechanical Model Workshop

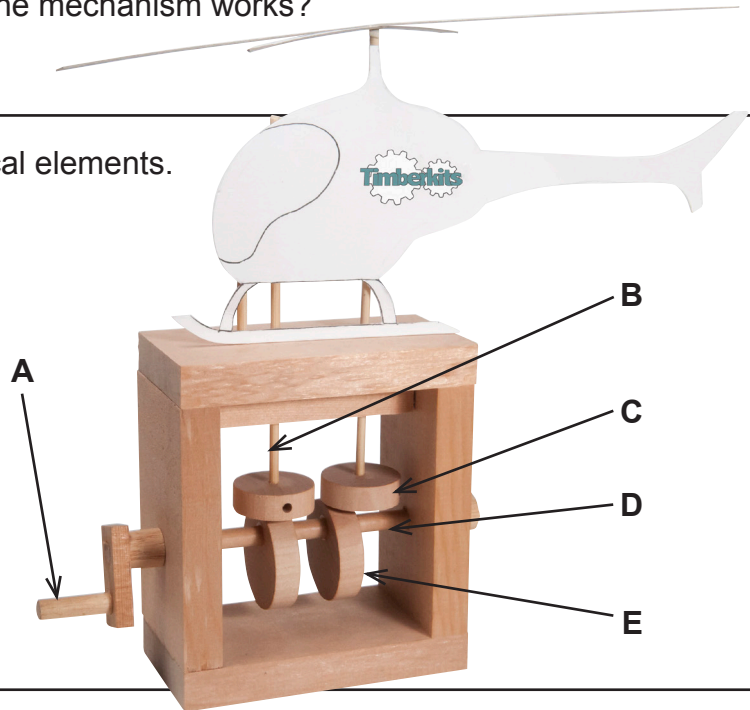
Learner Worksheet

1. Name the model you are looking at.

2. Describe it in your own words. Describe the objects that are moving e.g. is it a person, an animal etc. What action does the object have, is it going up and down, round and round, is it hitting something? Is it a jerky movement or a smooth, gentle movement? How do you think the mechanism works?

3. Label the following mechanical elements.

- A
- B
- C
- D
- E



4. To make your own model it is best to make the bench, crank handle and drive shaft so the glue can dry while you work out your designs.



5. Use the back of this worksheet to sketch your idea for a moving model and choose an appropriate mechanism to make it work. You can use more than 1 mechanism but it is best not to make it too complicated. (Use more paper if not enough space on the reverse of this sheet)

6. When you are ready to build the mechanism, push the crank handle and drive shaft through the bench and thread any cams or wheels you think you may need.

Experiment thoroughly before gluing anything together.

Think about your object(s) on top of the bench. You may have a combination of moving and static parts. What materials will you use? Sometimes it is helpful for objects to have a bit of weight to help them move but other times it is best if they are very light.