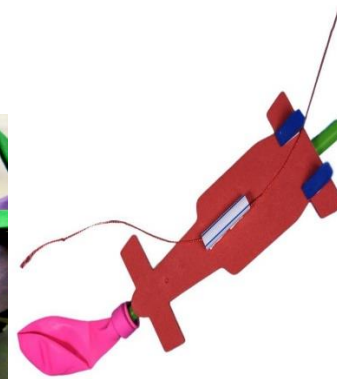
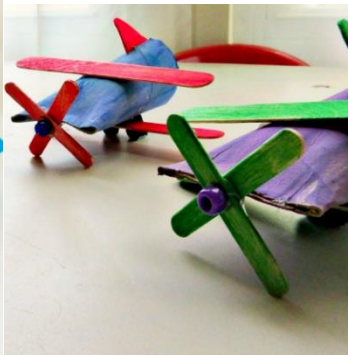
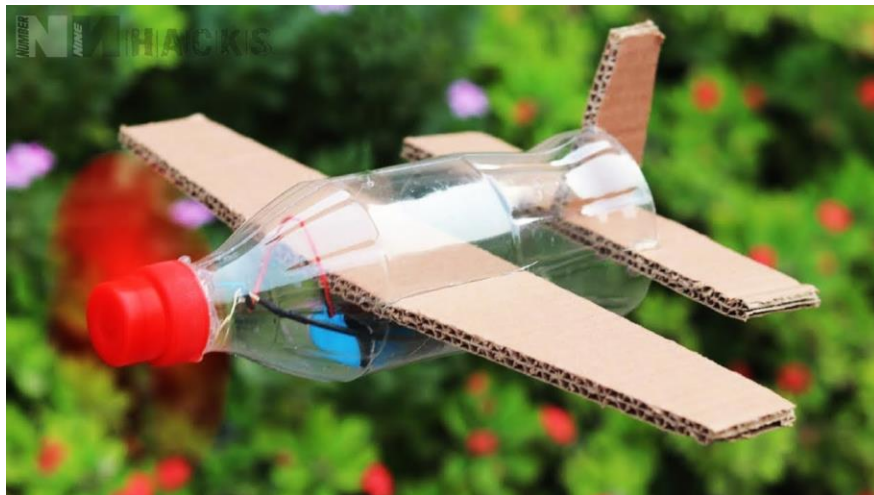
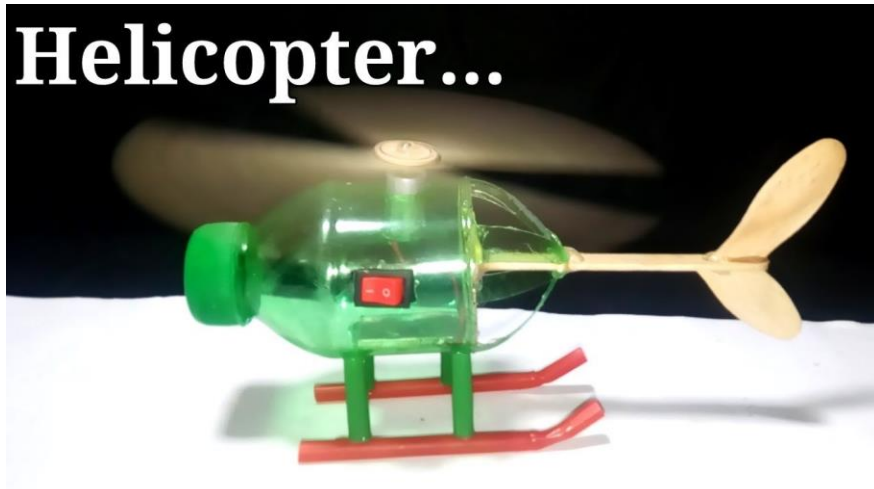


## Futuristic, fanciful flying machine assembly ideas



## Helicopter...



This project is a model to show a futuristic type of airplane. This model is not meant to fly, but to show a variety of features that would help an airplane fly. Suggested materials for your model: cardboard, recyclable materials such as bottles, caps and boxes. You should not go to the store to purchase anything.

Design your own flying machines based on your knowledge of the forces involved in flight. Inventors start by drawing plans. You will use the worksheet you were given to list the materials that you will use for your airplane, then draw a rough draft of your flying machine. Answer the questions on the worksheet about your flying machine. You will want to brainstorm with your classmates and family members to share ideas of the best materials and method to assemble your machine. Read the information on the worksheet on lines of symmetry. Be sure that your model has good symmetry to balance itself and fly well.

Bring your model to class on October 3 to share with your classmates. You will explain how your model will have good lift and thrust, counter-acted by weight and drag. Be ready to share your thoughts as to why you designed your airplane in the way that you did.

Have fun!