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## Teachers Guide to Aeronautical Activities

### Activity No. 3

#### Build A Glider

The build a glider activity can be completed either by a single student or group of students with different materials such as cardboard, balsa wood or paper. Small kits to assemble can be bought from craft and hobby shops. An introduction for teachers on how to make a handcraft glider from cardboard with learning outcomes and terminology such as aerofoil, wing shape, glider parts is mentioned [1]. Teachers can also set an internal competition to examine the longest or furthest flight.

**Time Required:** Depending upon the complexity of a glider, the activity could be completed either in a single or series of lessons.

**Resources Required:** Lists of resources with templates ranging from a simple glider to a very complex glider is mentioned [3-9]. If using a kit then almost no additional materials would be required.

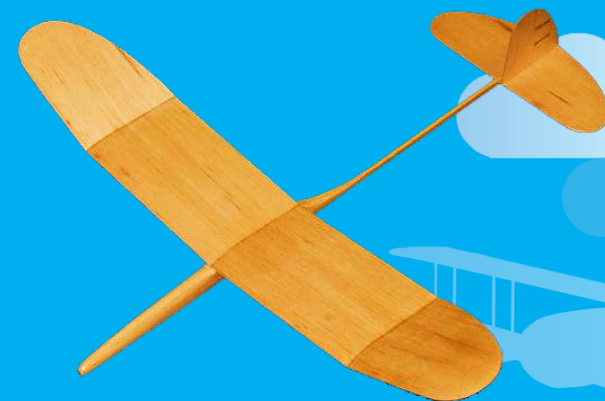


Image Source: BMFA (<http://bmfa.org/Info/Education/EducationKits/tabid/245/Default.aspx>)

#### Suggested Website:

- [1] [Student Activity – Making a glider](#)
- [2] [Glider Kit by British Model Flying Association](#)

#### Other websites:

- [2] [WikiBooks](#)
- [3] X-Glider Kit  
[http://www.nasa.gov/pdf/136206main\\_X.Gliders.pdf](http://www.nasa.gov/pdf/136206main_X.Gliders.pdf)
- [4] X-1 Paper Glider Kit  
[http://www.nasa.gov/pdf/58321main\\_X1Glider1b.pdf](http://www.nasa.gov/pdf/58321main_X1Glider1b.pdf)
- [5] 757 Glider Kit with Template  
[http://www.nasa.gov/pdf/58150main\\_757.Glider.Kit.pdf](http://www.nasa.gov/pdf/58150main_757.Glider.Kit.pdf)
- [6] Models of the Wright Brothers' Aircraft  
<http://www.grc.nasa.gov/WWW/Wright/ROGER/models.htm>
- [7] Space Shuttle Glider  
[http://www.nasa.gov/pdf/58283main\\_Space.Shuttle.Glider.pdf](http://www.nasa.gov/pdf/58283main_Space.Shuttle.Glider.pdf)
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- [9] Delta Wing Glider  
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