

© Fortran Friends July 2002 http://www.argonet.co.uk/users/fortran/Models/models.htm

Instructions

Print this page on stiff paper

Cut out the plan on this page with scissors around the outside solid lines.

Score along the internal lines with a compass point and a ruler.

Fold up along the dashed lines. Fold down along the solid ones.

Use a quick setting model glue to join the tabs to the nearby faces to make your 3D model, leaving the face without a tab until last.

Fold the lines so that all the printed lines are on the inside of the finished model

Turn your model round until it looks like one of the 4 small views labelled A,B,C,D

Decide about which axis of rotational symmetry (if any) each view is centred, and how many such axes there are in this shape.

Draw a symmetry symbol on the position of each axis, and a line to mark mirror planes.



(2) Octahedron

6 vertices, 8 faces



© Fortran Friends July 2002 http://www.argonet.co.uk/users/fortran/Models/models.htm



Β

Instructions

Print this page on stiff paper

Cut out the plan on this page with scissors around the outside solid lines.

Score along the internal lines with a compass point and a ruler.

Fold up along the dashed lines. Fold down along the solid ones.

Use a quick setting model glue to join the tabs to the nearby faces to make your 3D model, leaving the face without a tab until last.

Fold the lines so that all the printed lines are on the *inside* of the finished model



Turn your model round until it looks like one of the 4 small views labelled A,B,C,D

Decide about which axis of rotational symmetry (if any) each view is centred, and how many such axes there are in this shape.

Draw a symmetry symbol on the position of each axis, and a line to mark mirror planes.





© Fortran Friends July 2002 http://www.argonet.co.uk/users/fortran/Models/models.htm

C

D

(41) Compound of 2 cubes, a twinned crystal

Instructions

Print this page on stiff paper

Cut out the plan on this page with scissors around the outside solid lines.

Score along the internal lines with a compass point and a ruler.

Fold up along the dashed lines. Fold down along the solid ones.

Use a quick setting model glue to join the tabs to the nearby faces to make your 3D model,

For this model join tabs A first to make the tetrahedra for the two halves.

Then join one of the tabs B

Then join tabs C, which are the ones which hold the 2 halves together.

Join the other tab B last.

Fold the lines so that all the letters are on the *inside* of the finished model

Turn your model round until it looks like one of the 4 small views labelled A,B,C,D

Decide about which axis of rotational symmetry (if any) each view is centred, and how many such axes there are in this shape.

Draw a symmetry symbol on the position of each axis, and a line to mark mirror planes.

Δ

B



© Fortran Friends July 2002 http://www.argonet.co.uk/users/fortran/Models/models.htm

С

D