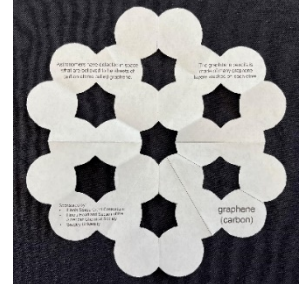


You can make a six-sided paper model of graphene



Astronomers have detected in space what are believed to be sheets of carbon atoms called graphene.

The graphite in pencils is made of many graphene layers stacked on each other.

Fold 1

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- Bradley University

Folding instruction video here:



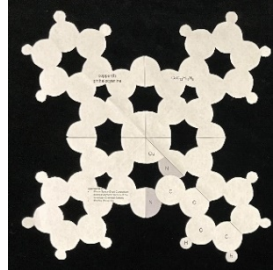
- 1) Fold along the lines in order of the numbers.
- 2) Cut away everything that is not part of a circle.
- 3) Unfold to see the graphene.

graphene
(carbon)

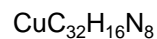
Fold 4

Fold 3

You can make a four-sided paper model of copper(II) phthalocyanine



copper(II)
phthalocyanine



Fold 1

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Folding instruction
video here:

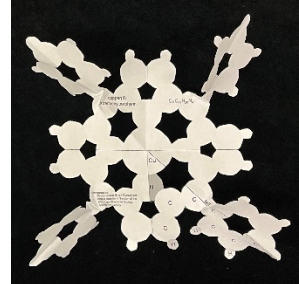


Fold 2

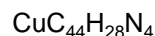
- 1) Fold along the lines in order of the numbers.
- 2) Cut away everything that is not part of a circle.
- 3) Unfold to see the molecule.

Fold 3

You can make a four-sided paper model of copper(II) tetraphenylporphyrin



copper(II)
tetraphenylporphyrin



Fold 1

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Cu

N

C

C

C

C

H

H

C

C

C

H

H

Fold 3

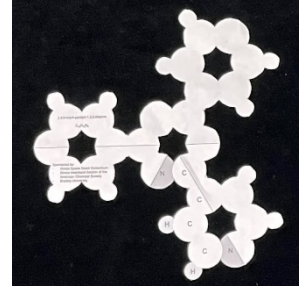
Folding instruction
video here:



Fold 2

- 1) Fold along the lines in order of the numbers.
- 2) Cut away everything that is not part of a circle.
- 3) Unfold to see the molecule.
- 4) Place a slight twist in the structure where each outer phenyl ring attaches to the main central ring.

You can make a three-sided paper model of 2,4,6-tris(4-pyridyl)-1,3,5-triazine

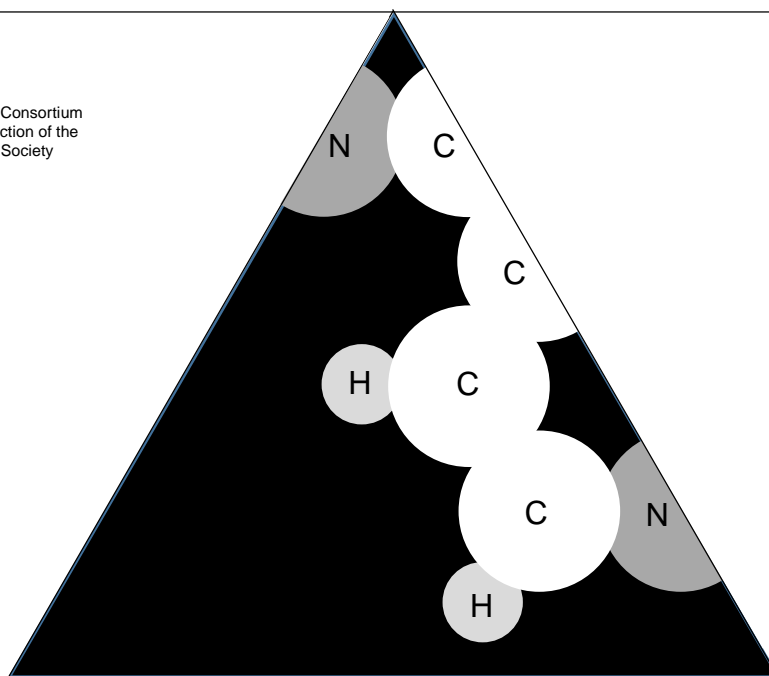


2,4,6-tris(4-pyridyl)-1,3,5-triazine

$C_{18}H_{12}N_6$

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- Bradley University



Fold 1

Folding instruction
video here:

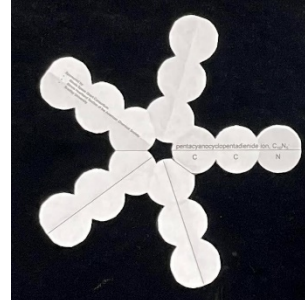


- 1) Fold along the lines in order of the numbers.
- 2) Cut away everything that is not part of a circle.
- 3) Unfold to see the molecule.

Fold 2

Fold 3

You can make a five-sided paper model of pentacyanocyclopentadienide ion



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pentacyanocyclopentadienide ion, $C_{10}N_5^-$

C

C

N

Fold 1

Fold 2

Fold 4

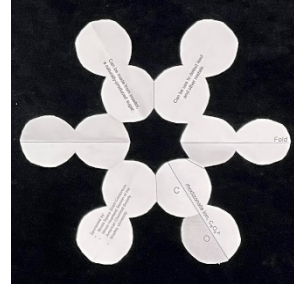
Folding instruction
video here:



Fold 3

- 1) Fold along the lines in order of the numbers.
- 2) Cut away everything that is not part of a circle.
- 3) Unfold to see the molecule.

You can make a six-sided paper model of the rhodizionate ion



Can be made from inositol,
a naturally-produced sugar.

Can be used to detect lead
and other metals.

Fold 1

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 - Bradley University

Folding instruction
video here:



Fold 2

- 1) Fold along the lines in order of the numbers.
- 2) Cut away everything that is not part of a circle.
- 3) Unfold to see the structure.

Fold 4

Fold 3

C

rhodizionate ion, $C_6O_6^{2-}$

O