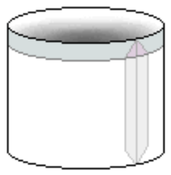
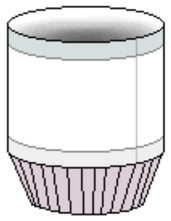
Instructions for building the Explorer 1 satellite .

1



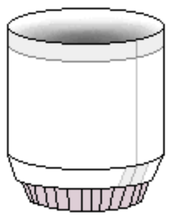
C2 Make part C with connector.
Place small brown parts MI later.

2



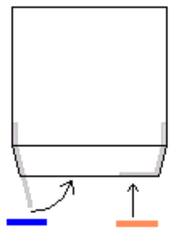
Carefully place connector C2 - A7
Use the lines on the connector.

3



Add A7, with connector.

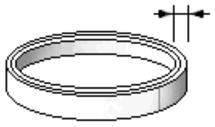
Keep all seams on one side,
along the whole model.
Once the glue has fully dried,
fold flaps inside, until level.



4

Make A6, with connector.

5

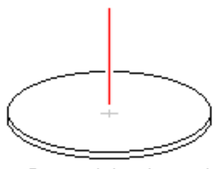


Keep adding paper strips until the
rim is at least 2 mm thick.

6

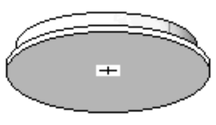
Glue A4 .

7



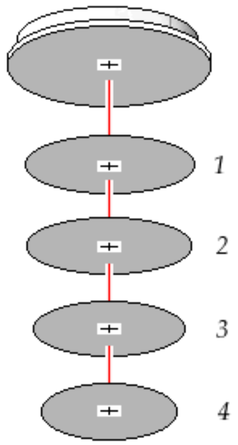
Grey side down !

Glue A5 onto thick cardstock
next glue previous assembly
(A6 + A4) onto A5.
Note the correct directions of
grey lines and surfaces.



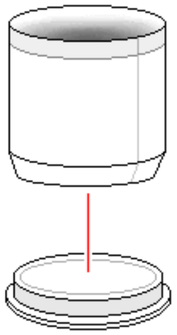
View from below.

8



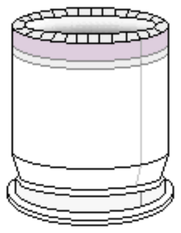
Cut out 1 - 2 - 3 and 4. Place 1 first, using
a pin or needle for perfect centering.
Apply 2, 3 and 4, one by one, in the same way.
Don't forget to make edges grey.

9



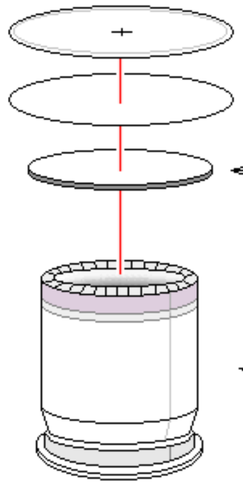
Glue the 2 assembled parts together.

10



Add the connector for C2 to A2.

11



Connect A1 to A1A with ink on up- and underside.

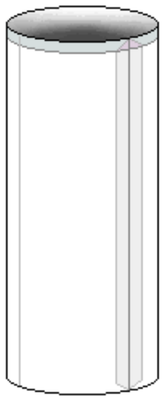
Glue to A2

(Glue A2 onto thick cardstock and make edge grey.)

Glue to assembled part.

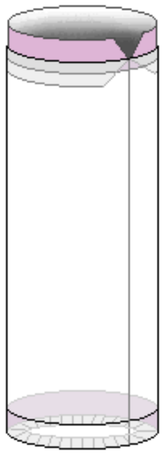
Instructions for building the Explorer 1 satellite .

12



Make cylinder B1 with connector.

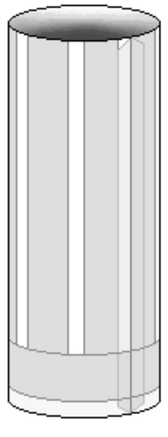
13



Place connector B1 to C1.

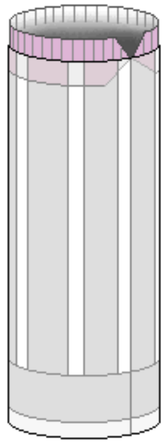
Place connector C2 to A2 .

14

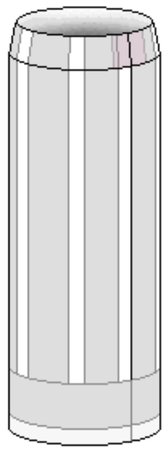


Make cylinder C1 with connector.

15



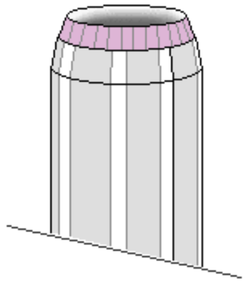
Place connector NC-A



Place part NC 1 with connector NC-B.

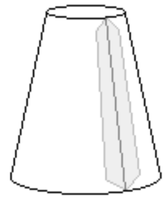
16

17



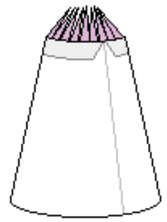
Place connector NC-C.

18



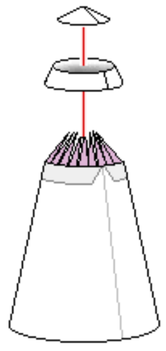
Make nosecone NC 2 with connector NC-D

19



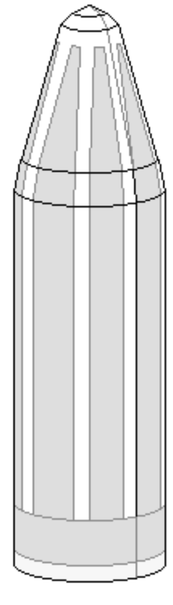
Place connector NC-E.

20



Place parts NC 3 and NC 4.

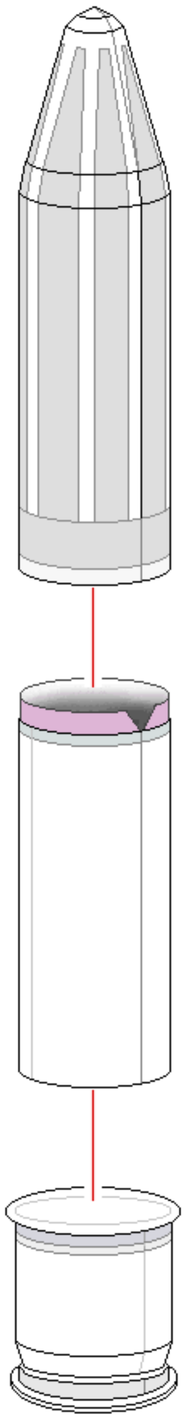
21



Glue nosecone into place.

Keep all seams alligned, from top to bottom.

Instructions for building the Explorer 1 satellite .



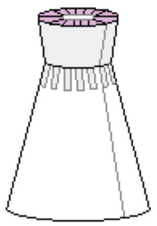
22 Connect C1 and B1.

23 Glue to bottom part.

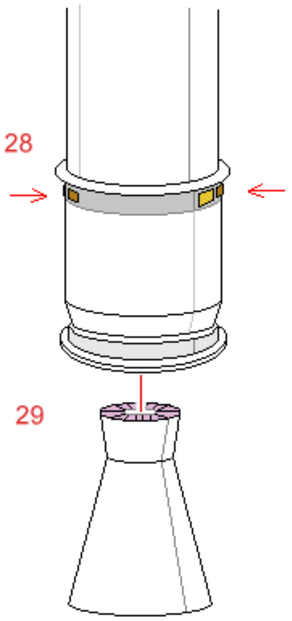
25  First make A8, then insert A8C.

24  Make A8 with connector.

26  Make exhaust A9 with connector.



The connector should be folded like this.

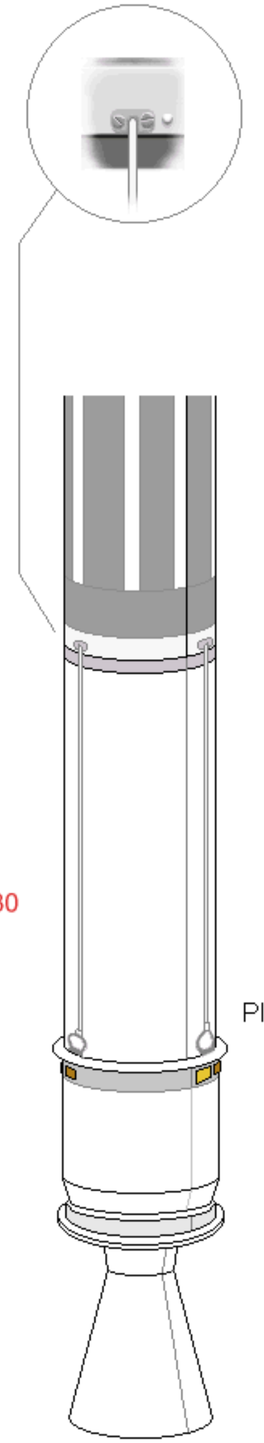


28 Add parts MI 1 and 2 .

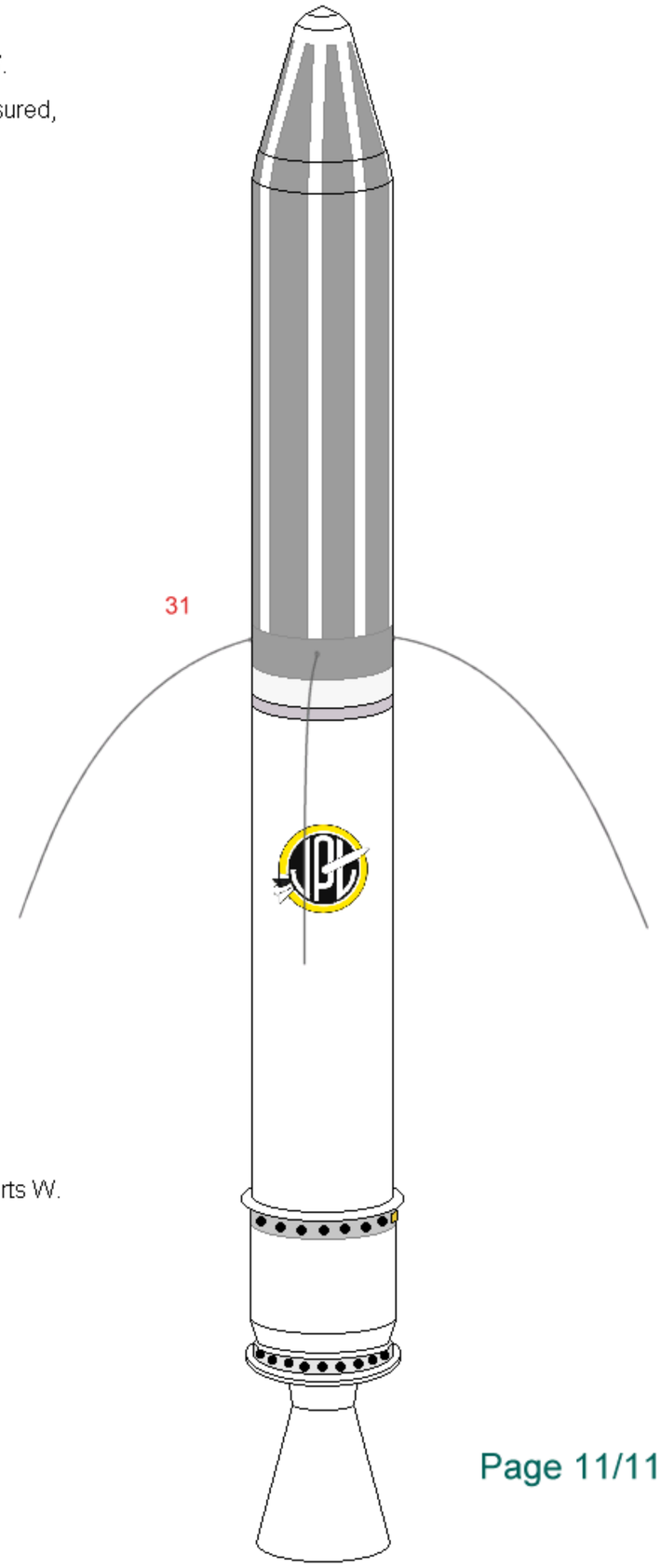
29 Place exhaust.

Note placement of parts W.

These should first be measured, then cut to length and glued into place.



30 Place parts W.



31

Last, add the antenna's, if you like. Make them 14 cm long.
Make 4 antenna's. (5.5 inches)

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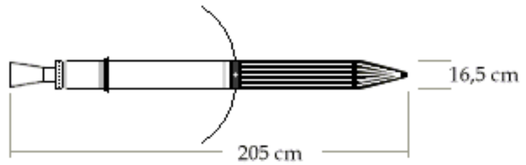
Explorer 1

America's first official leap into space, to enter the space race.

Large scale 1:4



B1

1 cm

1 inch

Printing calibration.

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Explorer 1

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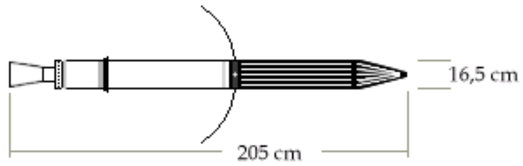
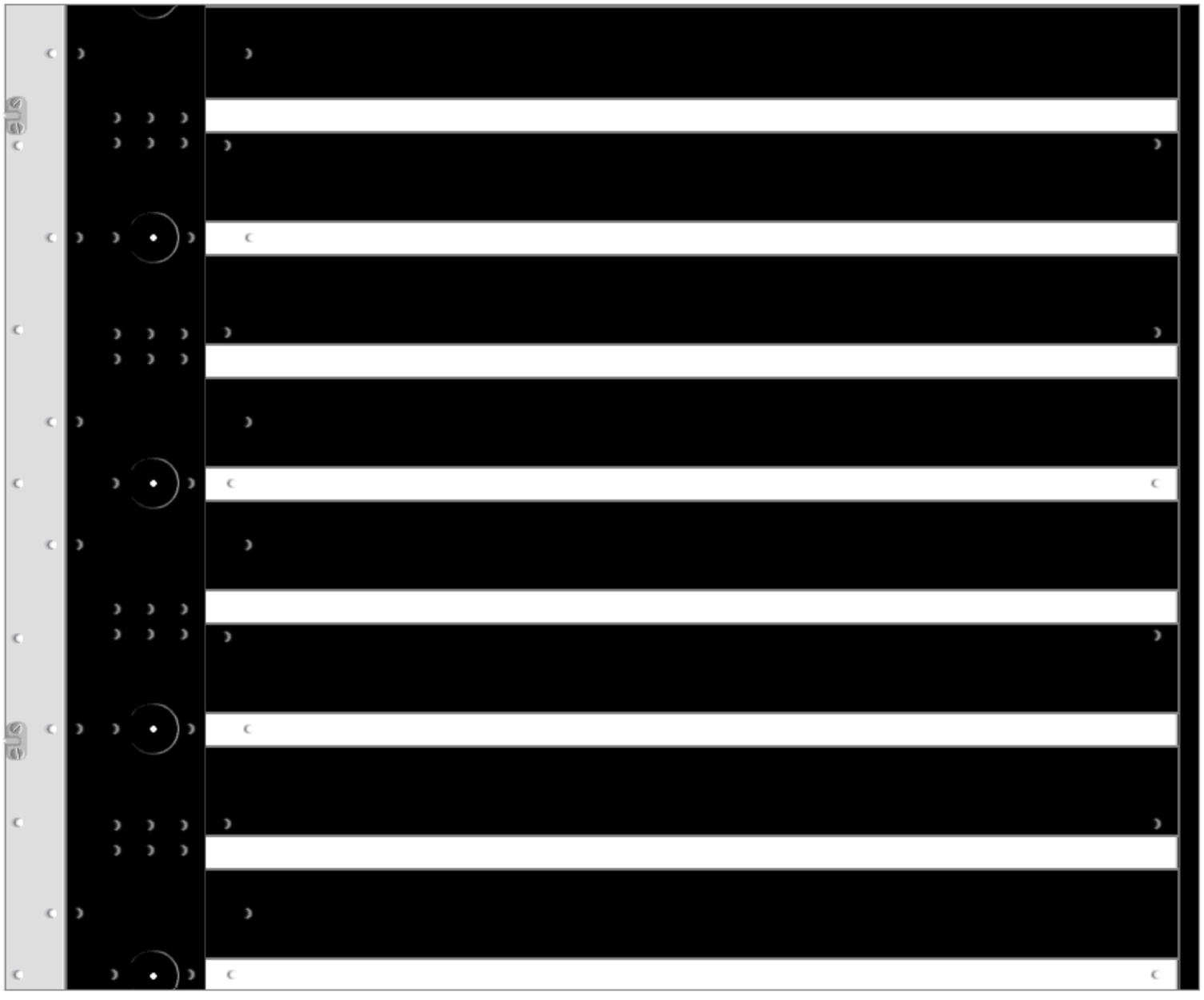
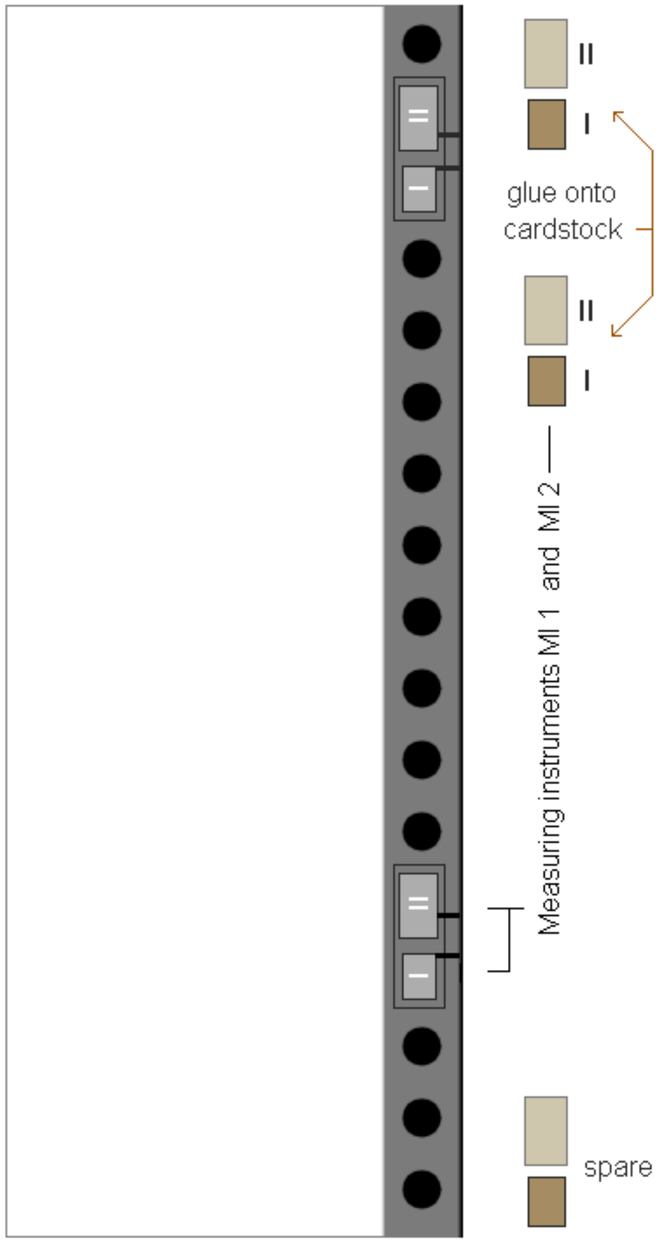
Large scale 1:4





C1



C2

Length of antenna's. Make 4 antenna's

Paper model version by E. te Groen. For the Public Observatory Philippus Lansbergen, Netherlands.

1 cm

1 inch

Printing calibration.

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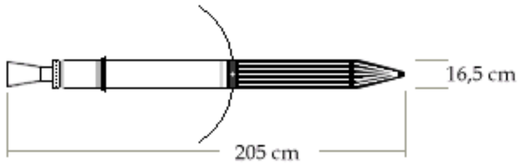
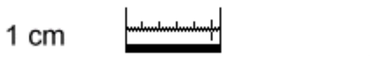
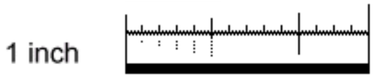
Explorer 1

America's first official leap into space, to enter the space race.

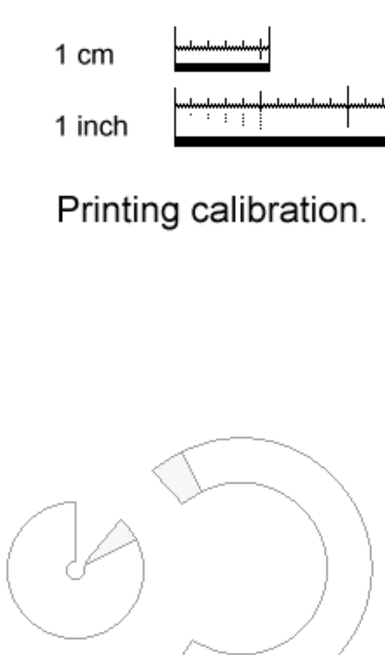
Large scale 1:4

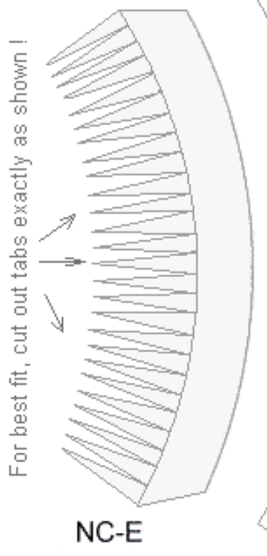


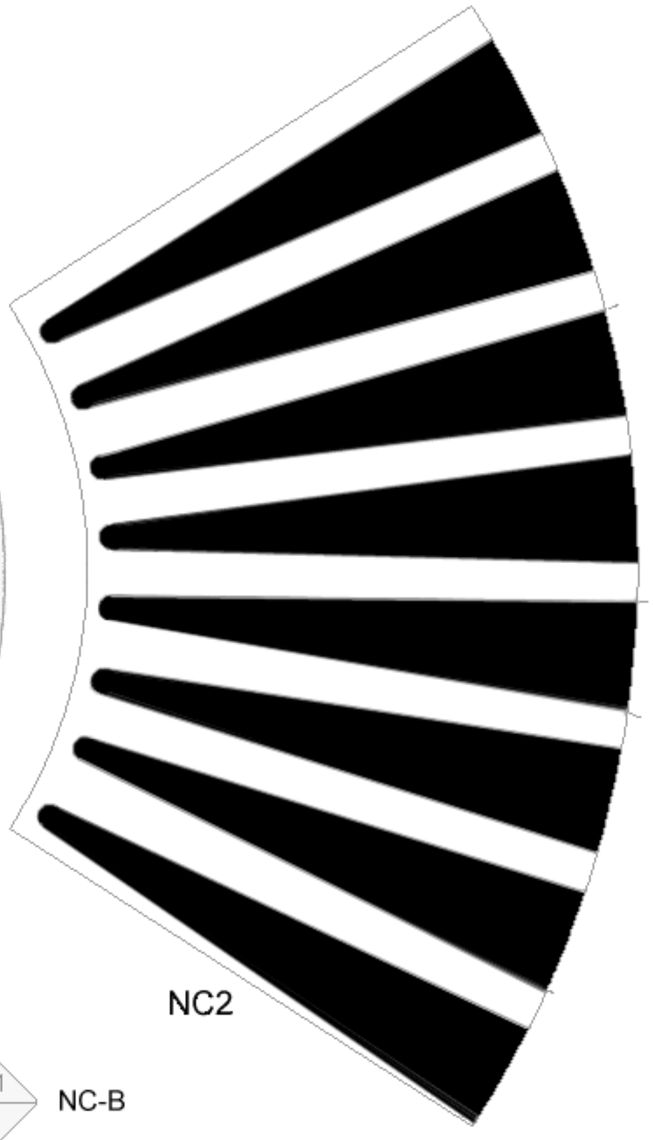


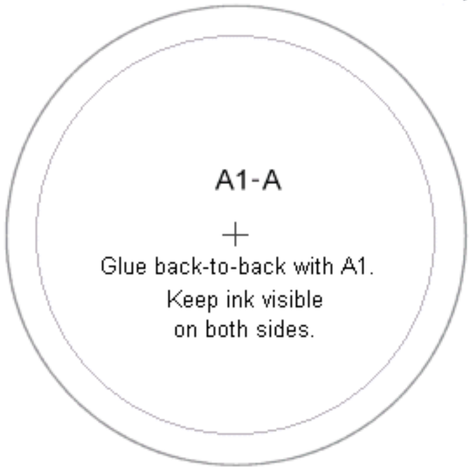


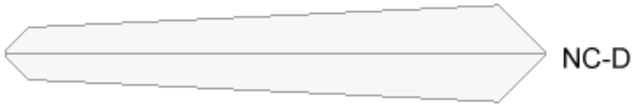
Printing calibration.

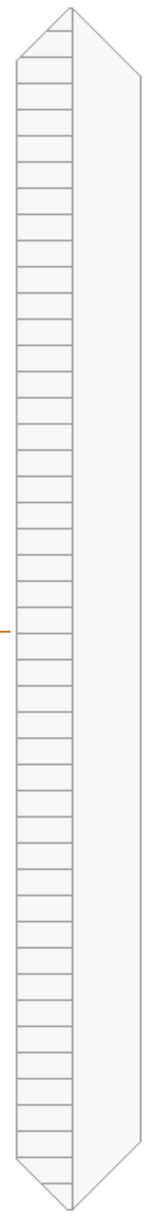


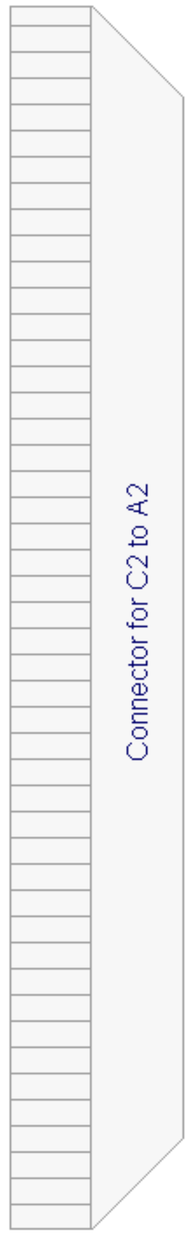












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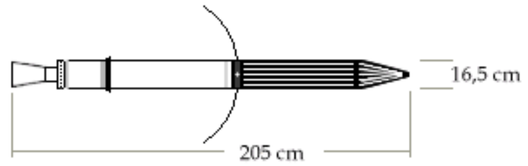
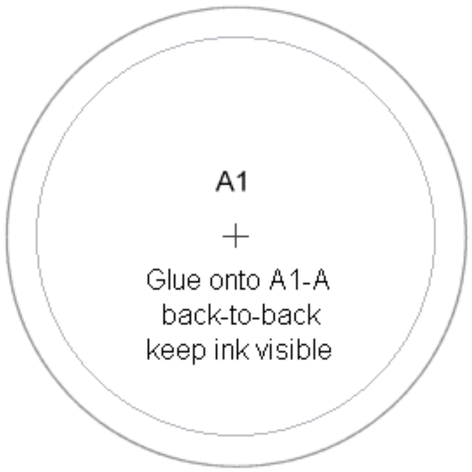
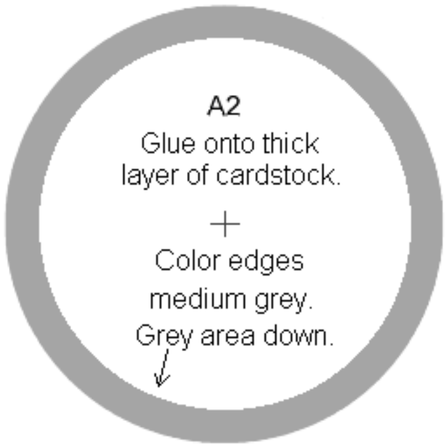
Explorer 1

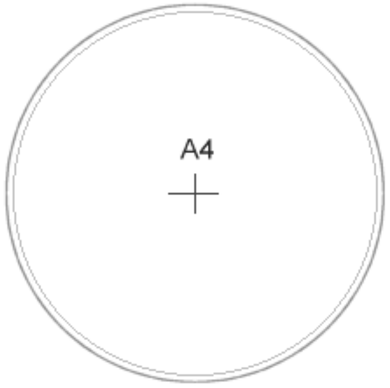
America's first official leap into space, to enter the space race.

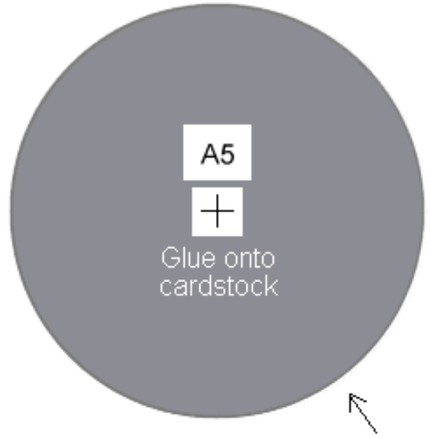
Large scale 1:4







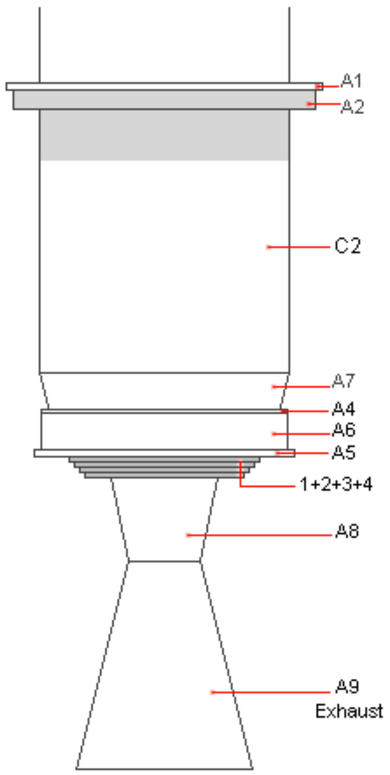




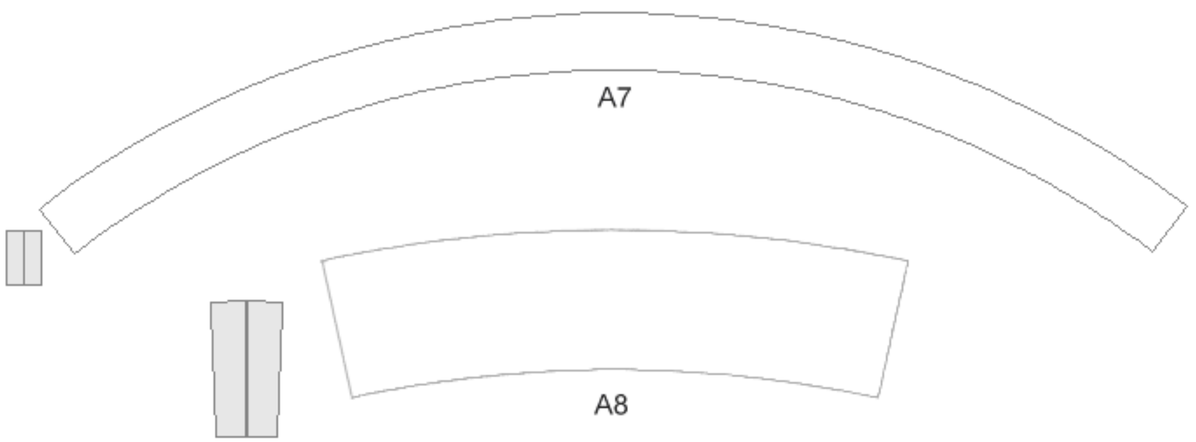
Do NOT make edge grey !
Only underside is grey.

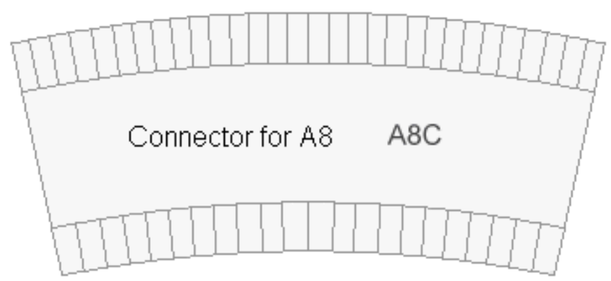
1-2-3-4 : make edges grey.

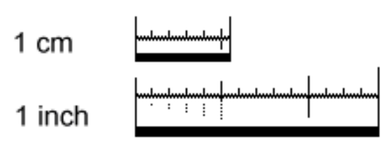
Cutting out circles : Cut out carefully, file until perfectly round.
Make edges grey, if necessary.
Make a hole with pin or needle in black cross in the middle.
Add glue and assemble parts. Insert pin through all of the
holes while glue is still liquid, making allignment easy and perfect.
As soon as glue starts to set, take out pin.



side view.
not to scale .







Printing calibration.

www.lansbergen.net

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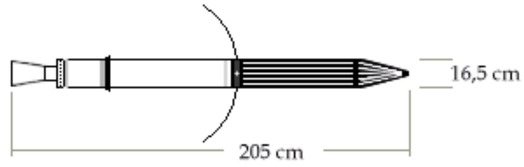
Explorer 1

America's first official leap into space, to enter the space race.

Large scale 1:4



Place these strips inside of A6, to make a rim for A4 and A5 to glue on to.

Place these strips inside of A6, to make a rim for A4 and A5 to glue on to.

Place these strips inside of A6, to make a rim for A4 and A5 to glue on to.

A6

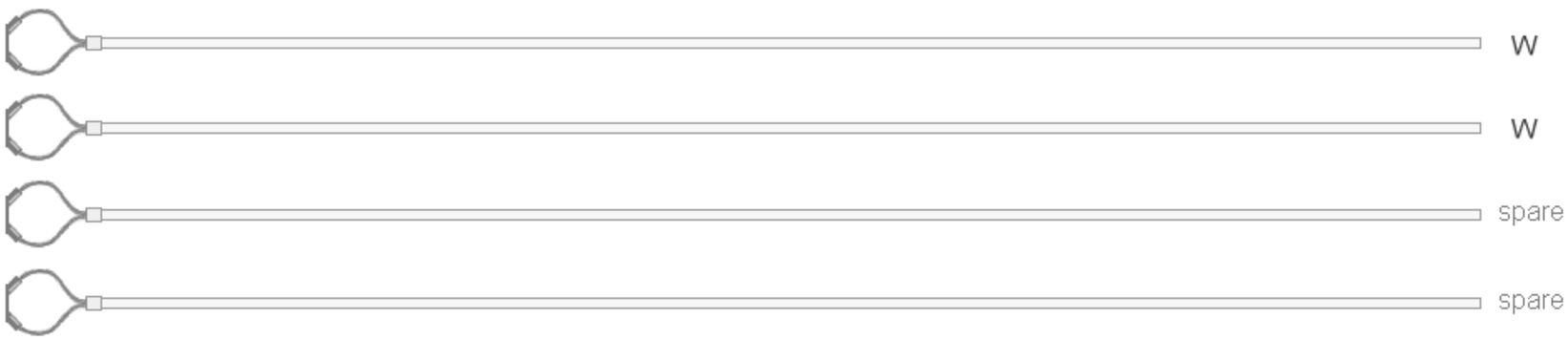
Connector for C2

connector for exhaust A9

Connector for C1

Connector for B1.

A9
Exhaust



W

W

spare

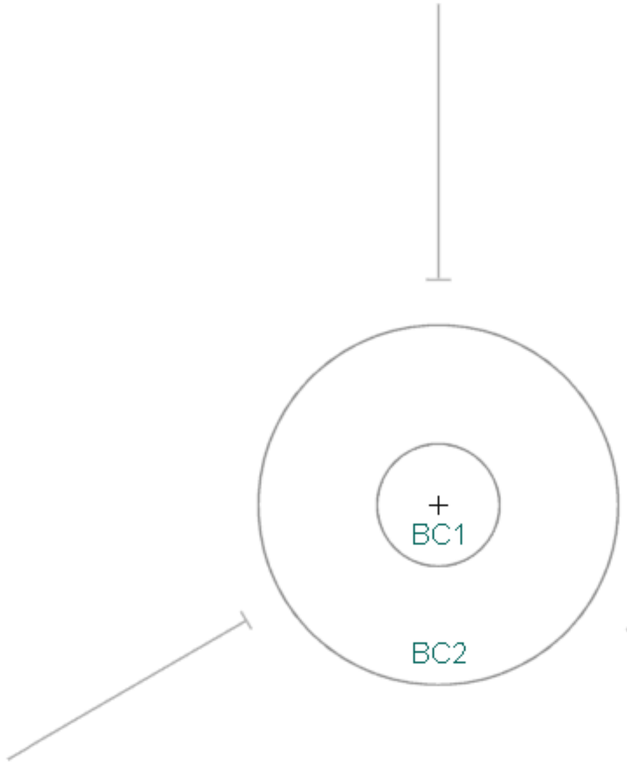
spare

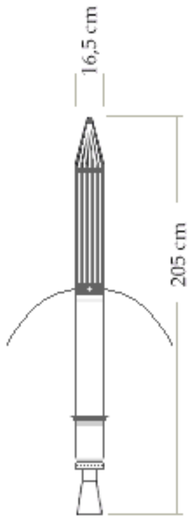
First cut out W, then measure and cut to needed length once model is finished.

1 cm

1 inch

Printing calibration.

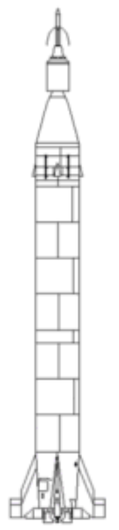




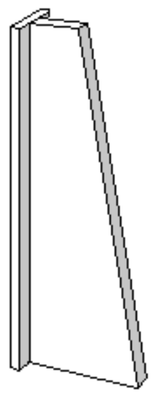
Explorer 1

America's first successful launch of a satellite into space. Developed and built by the Jet Propulsion Laboratory in 1957 - 1958. Launched on January 31st, 1958 by a Juno 1 rocket. This satellite discovered a radiation belt around the Earth, called the Van Allen Radiation Belt, named after the man who built the cosmic ray detector.

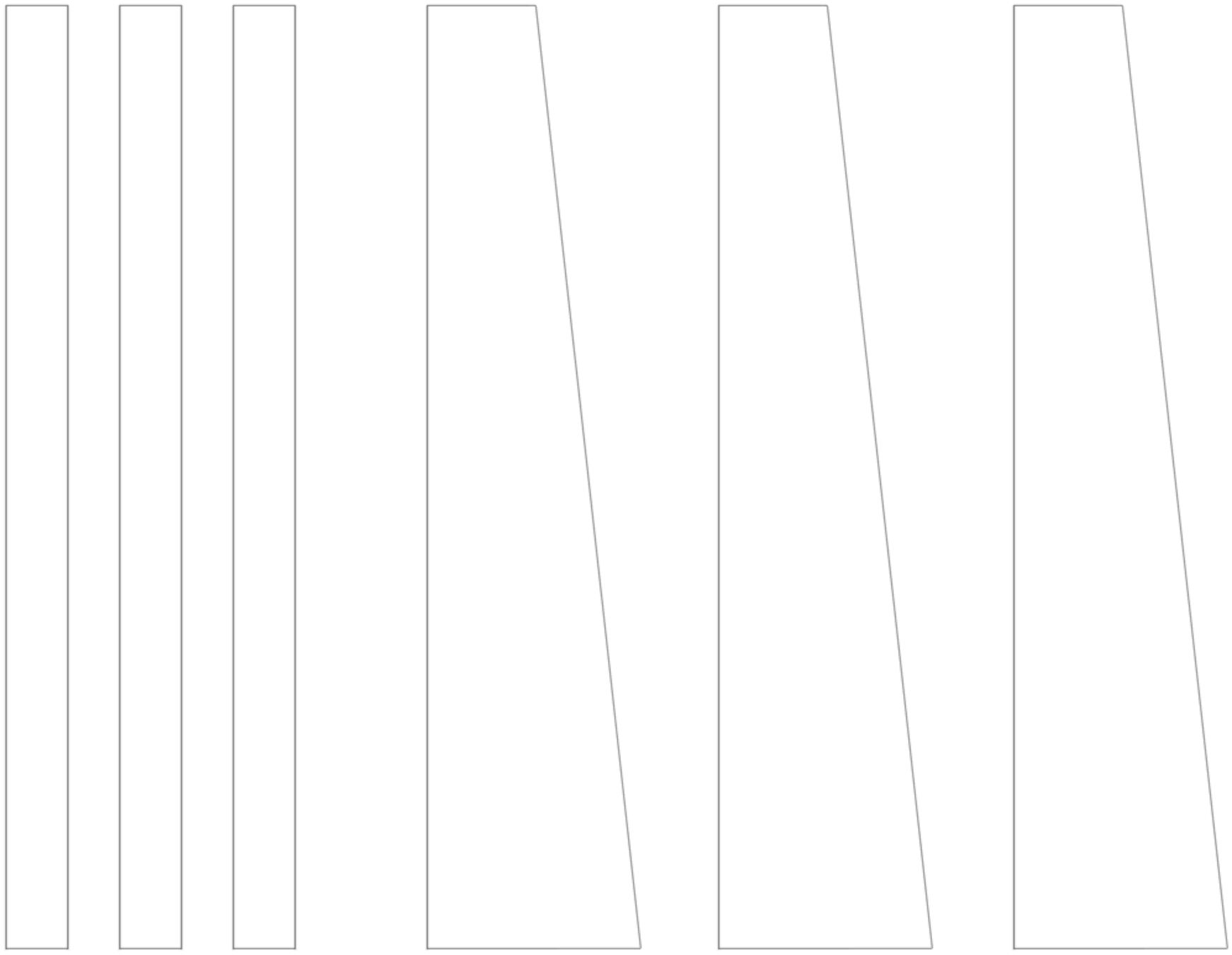
Scale 1:4



If you want to make a sturdy rocketstand glue this base onto a thick piece of cardstock or wood.
Glue the other parts for the stand onto thick cardstock. Parts BC1 - BC1A and BC2 are just to keep the model from moving. These need not to be glued to cardstock.



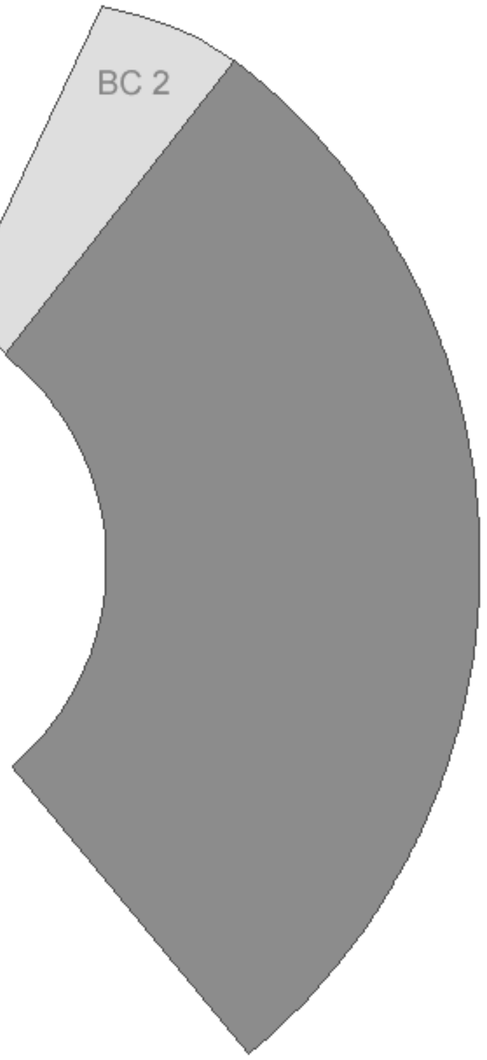
3 X

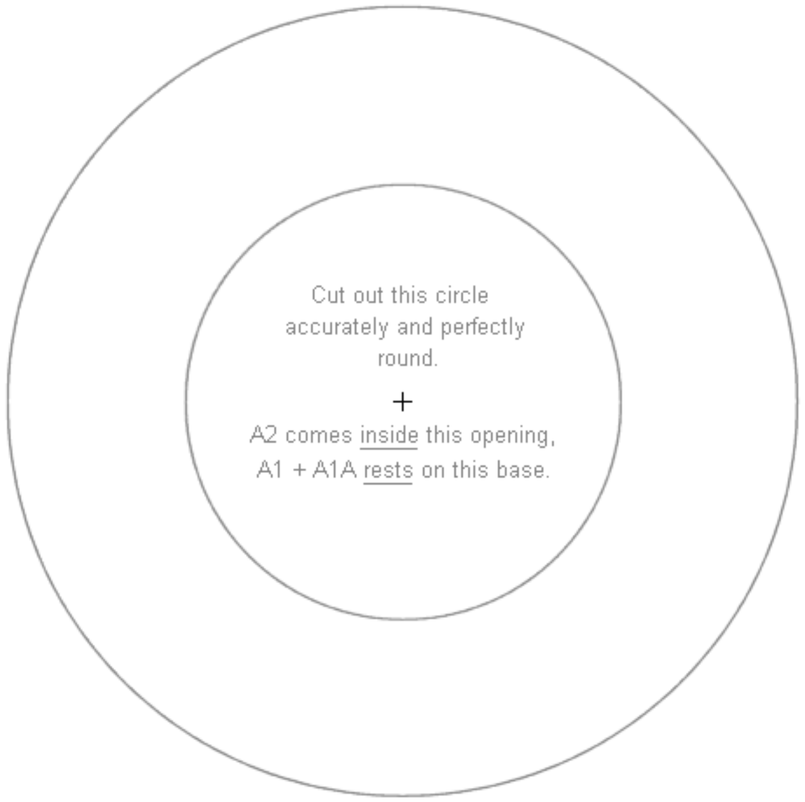


BC 4

BC 5

Glue these parts onto thick cardstock.





BC 3 Glue onto thick, sturdy cardstock.