

INSPIRED BY

It's a Small World

AUTOMATA TOY

PARTS TEMPLATE & ASSEMBLY GUIDE

PARTS TEMPLATE

pg. 5 - 14

ASSEMBLY GUIDE

pg. 15 - 26

with
qing





ASSEMBLED TOP PART OF AUTOMATA TOY

MATERIALS

approx. 10 pcs. 8.5" x 11" size

- x 1 1/8" Recycled Corrugated Cardboard
- x 1 Disposable Chopstick *(or similar size wooden dowel)*
- x 4 Toothpick *(attach small flags to boat)*
- x 1 Hot Glue Gun & Glue Gun Refill Sticks
- x 1 PVA Glue *(or Adhesive Spray Mount)*
- x 1 Cellophane Tape *(at least 1 inch wide, 12" long)*
- x 1 Xacto/ Knife
- x 1 Metal Ruler
- x 1 Cutting Mat

- x 1 Printouts *(the following pages)*

Optional

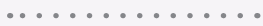
- x 1 Black Acrylic Paint
- x 1 Paint Brush



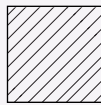
LEGENDS



Cutline



Middle line
acts as aligning guide



Remove this part



Cut the "x".

Poke through with a blunt tip to
form hole



Stick cellophane tape on
this area



PARTS TEMPLATE

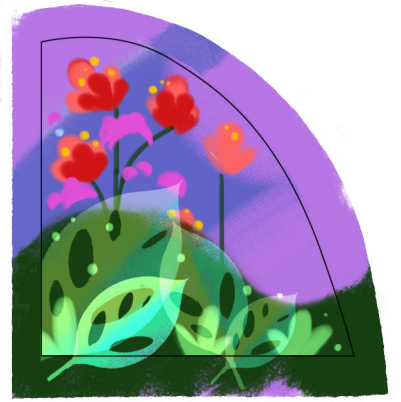
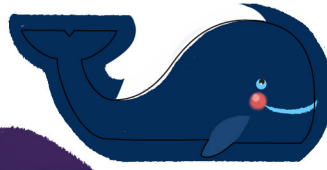
IT'S A SMALL WORLD
AUTOMATA TOY

Please print out the pages of parts template and
glue them onto corrugated cardboards.



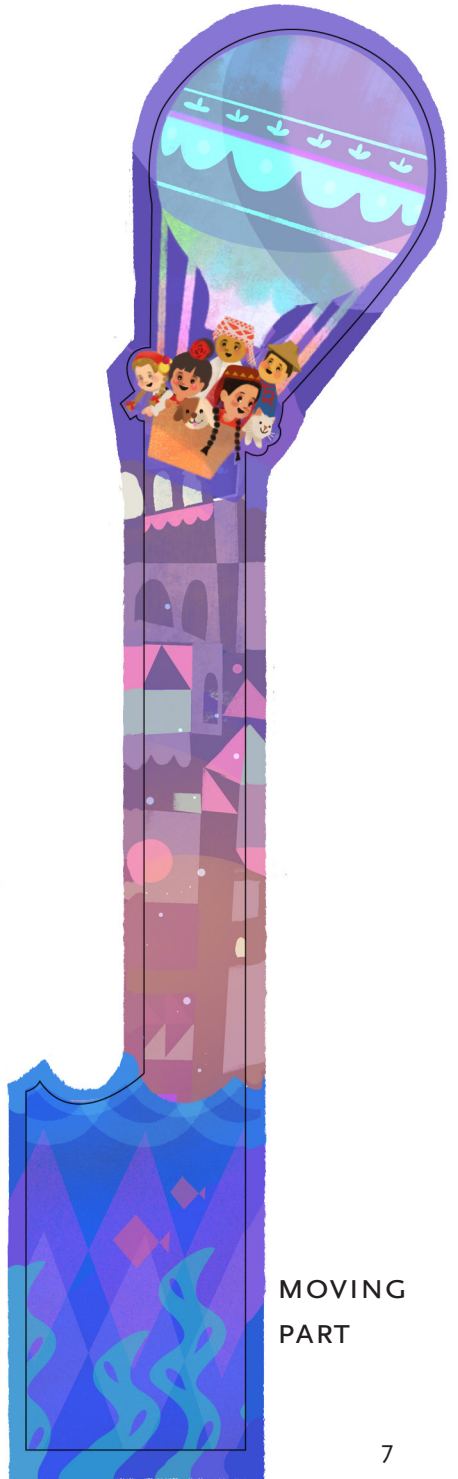
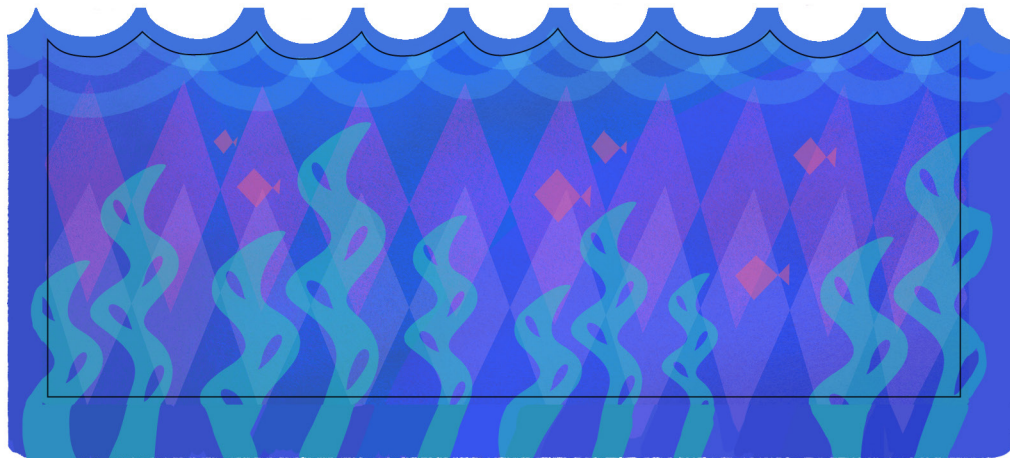
Glue page onto corrugated cardboard.

MOVING PART
(WATER ONLY)



MOVING PART

Glue page onto corrugated cardboard.



MOVING
PART

Glue page onto corrugated cardboard.



Glue page onto corrugated cardboard.

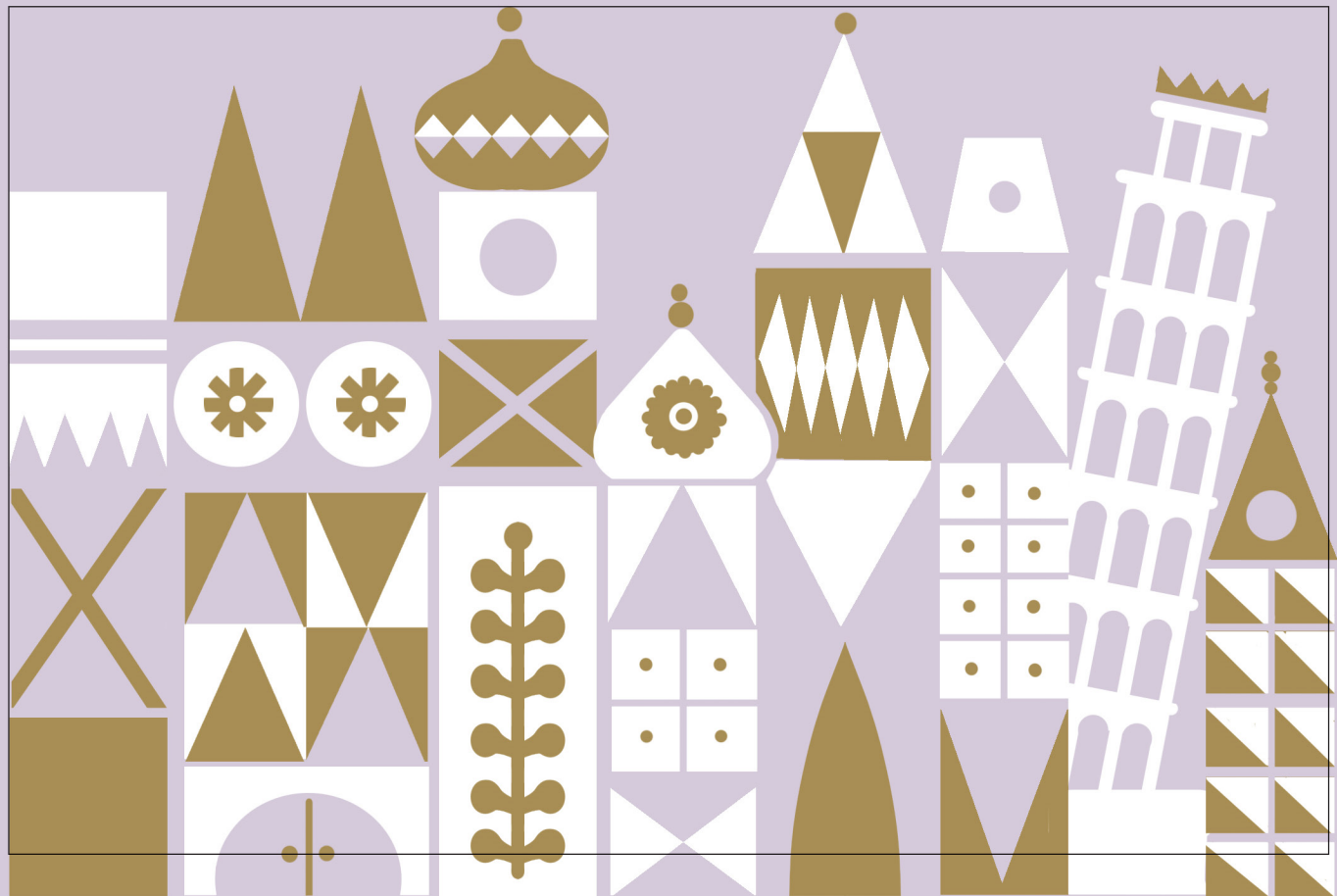
27

SIDE



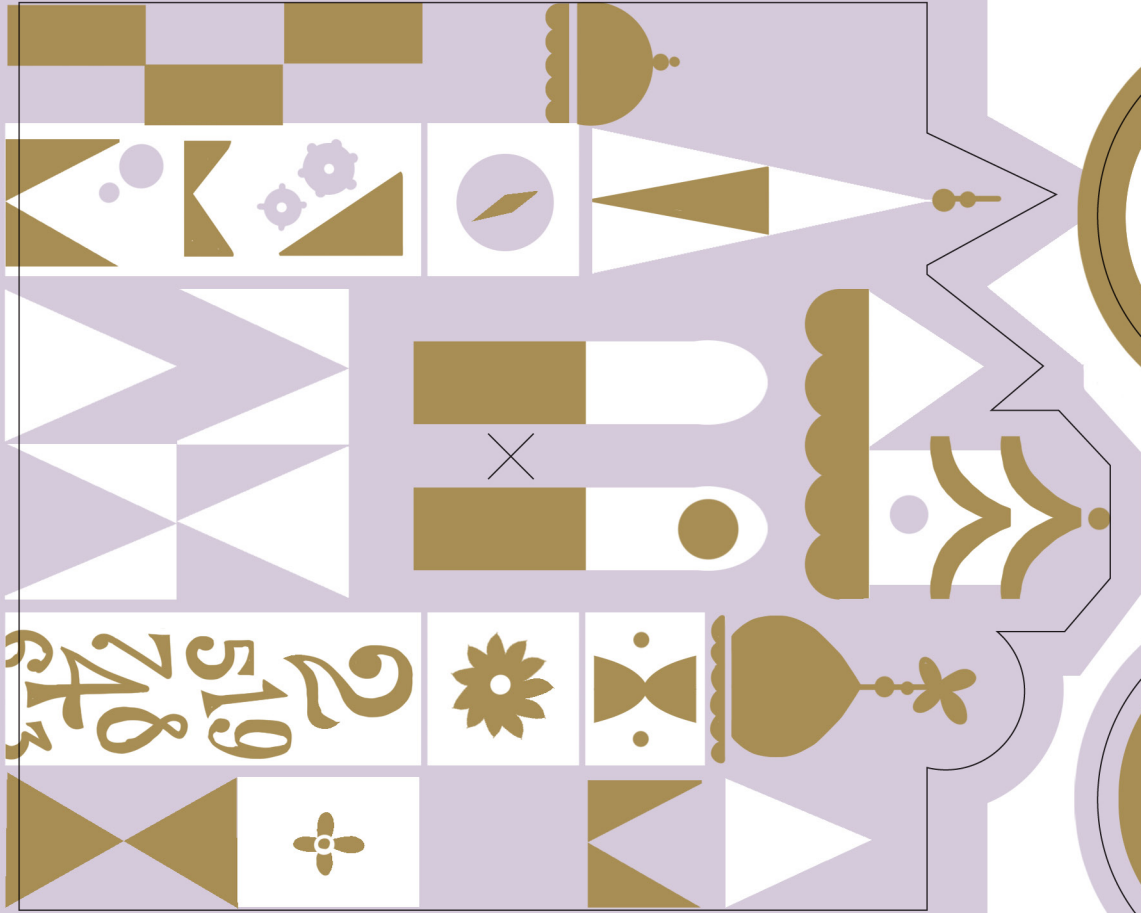
28

SIDE

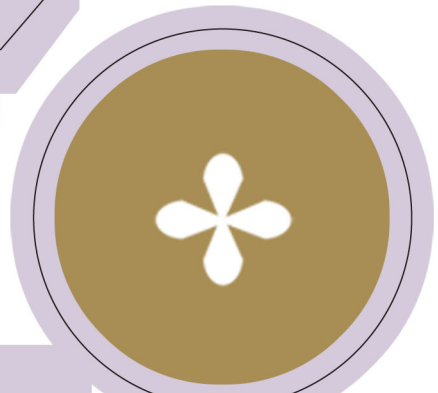


FACADE FRONT

Glue page onto corrugated cardboard.

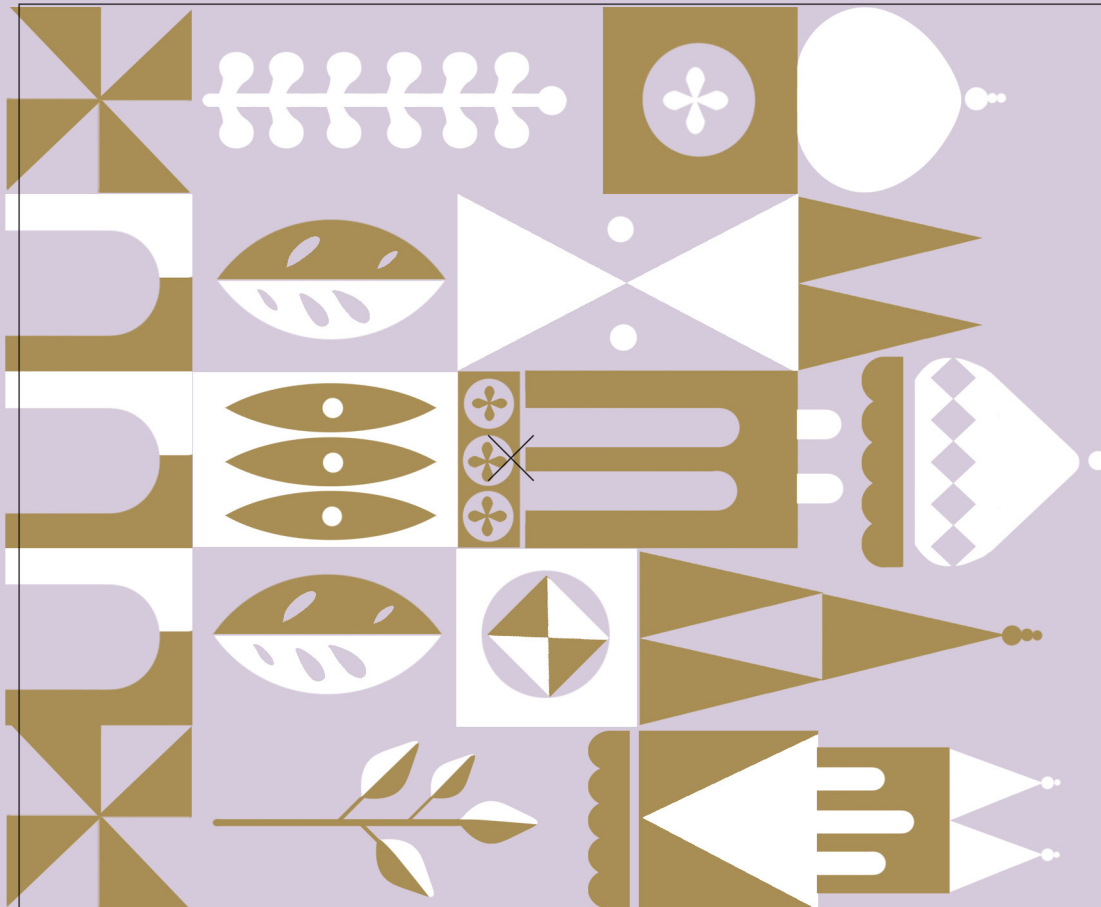


FRONT CAP



END CAP

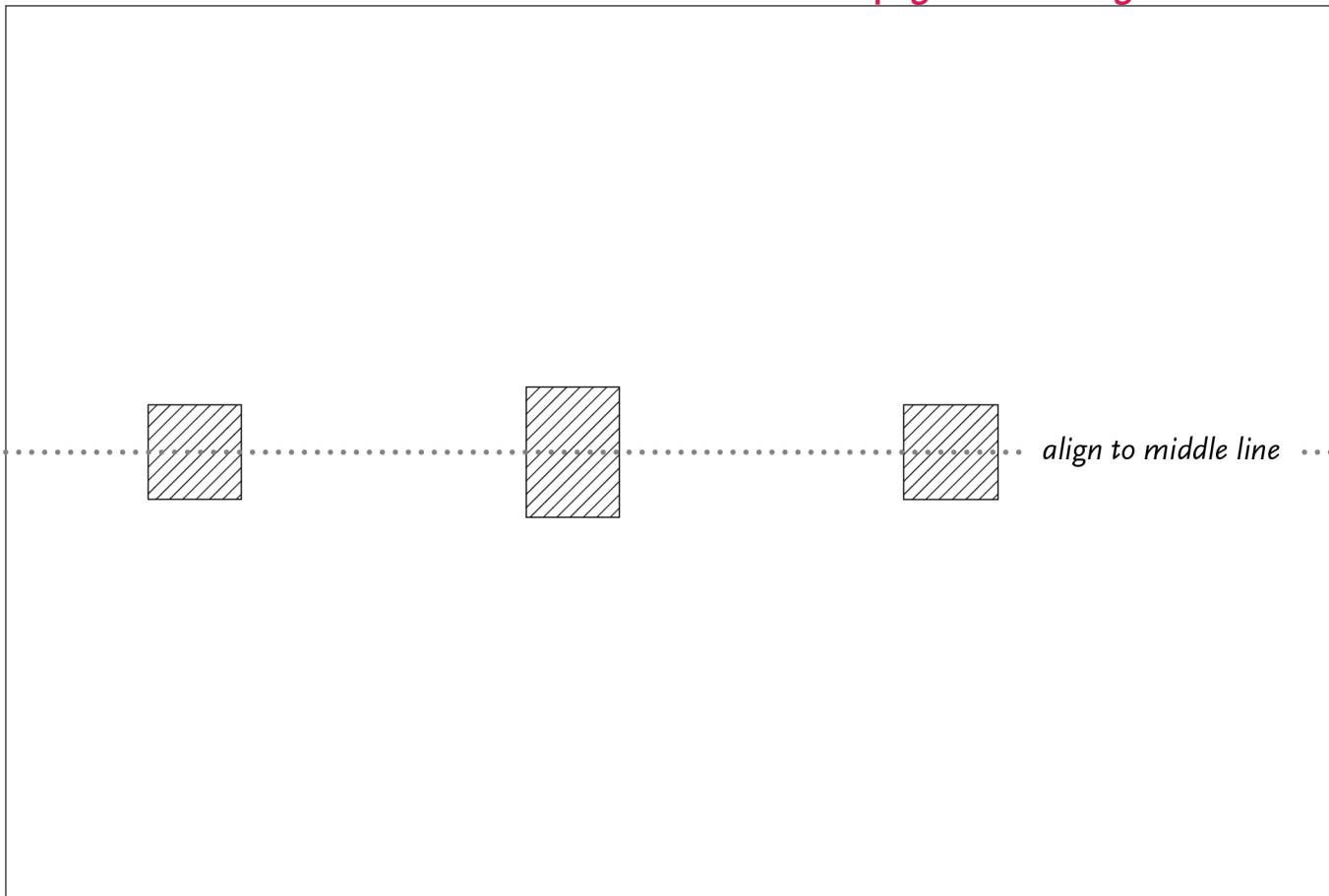
FACADE BACK



Glue page onto corrugated cardboard.

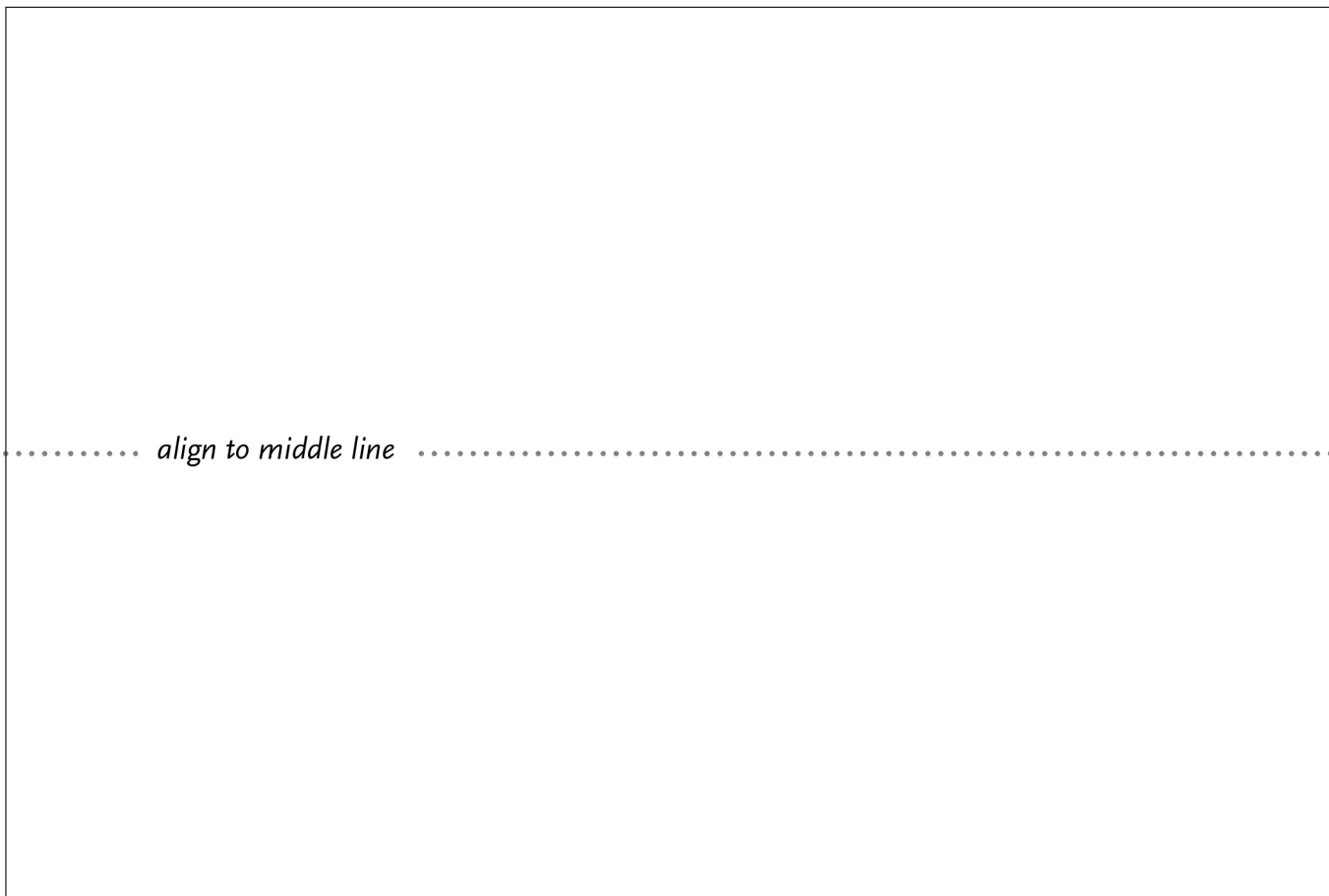
1

TOP



2

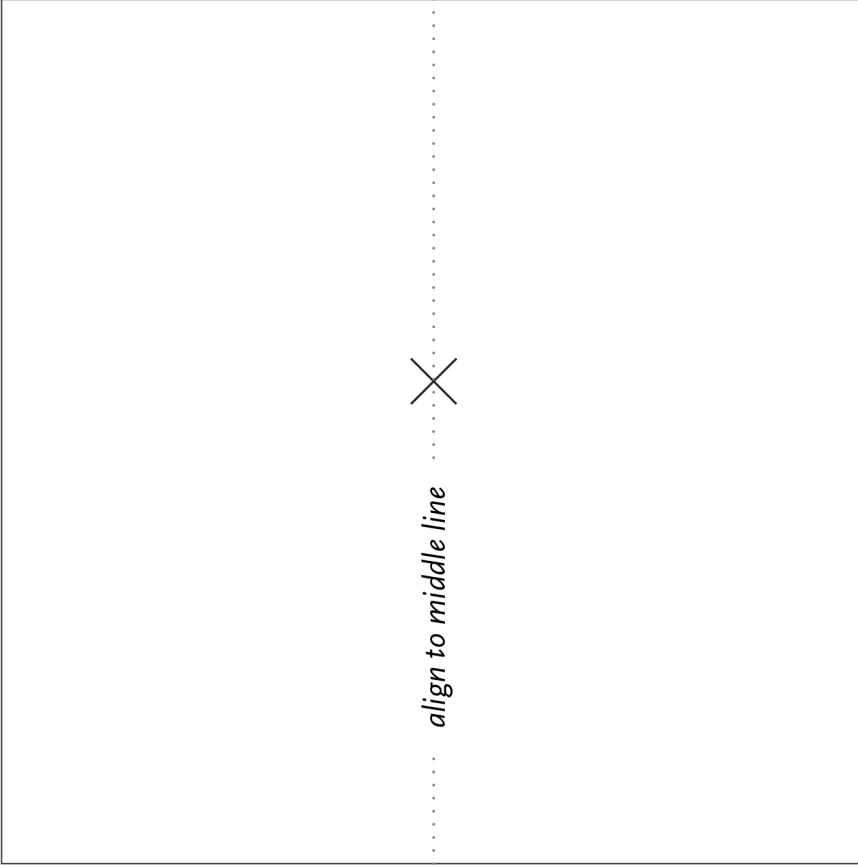
BOTTOM



Glue page onto corrugated cardboard.

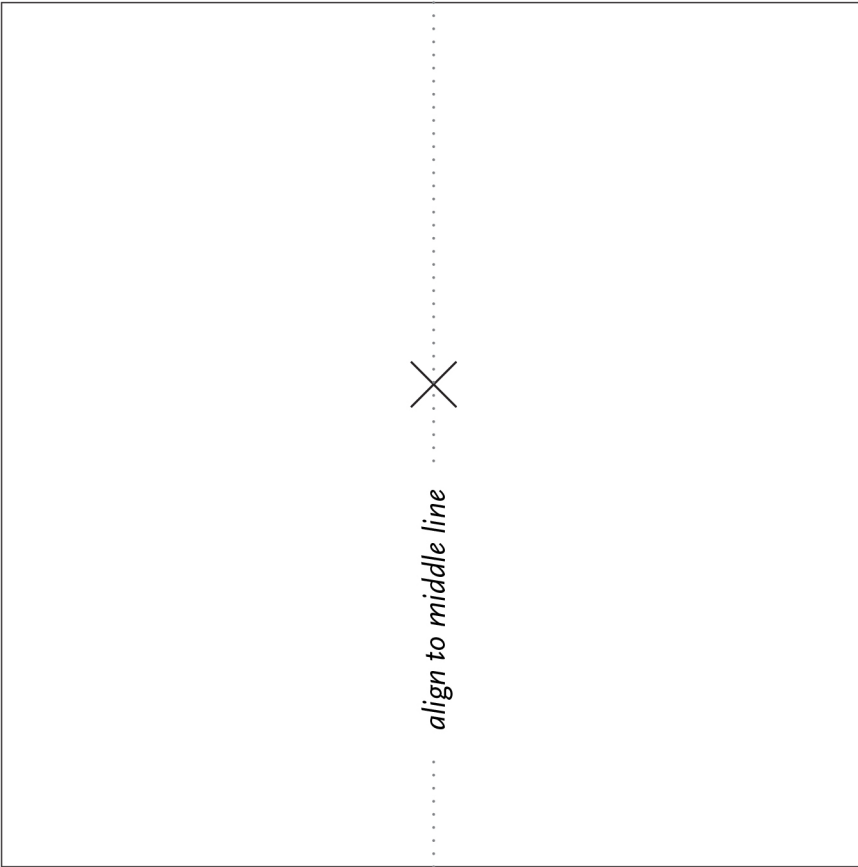
3

STRUCTURAL FRONT



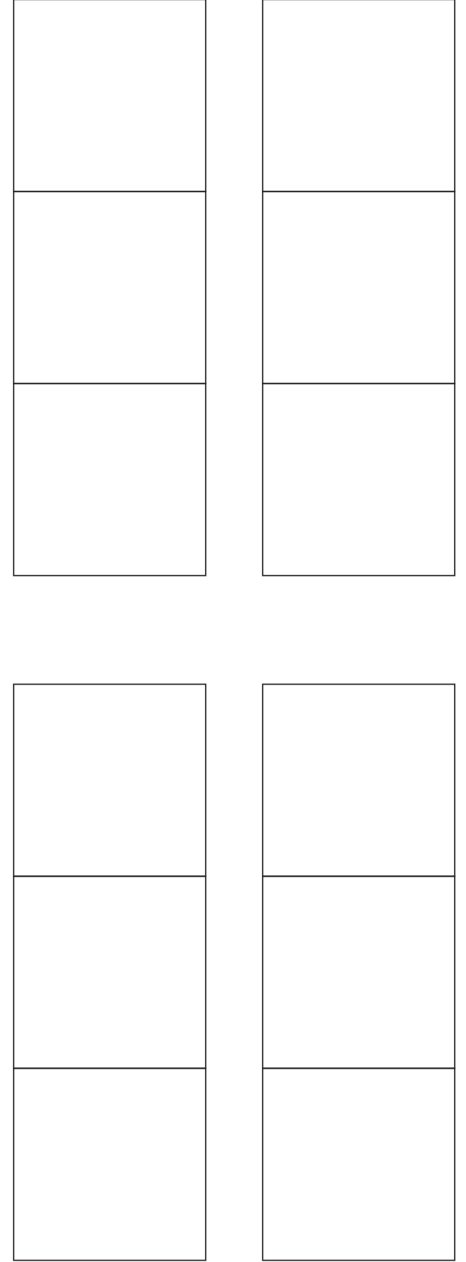
4

STRUCTURAL BACK



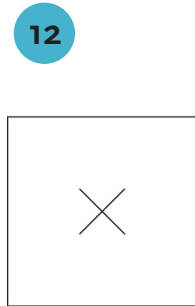
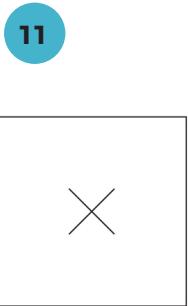
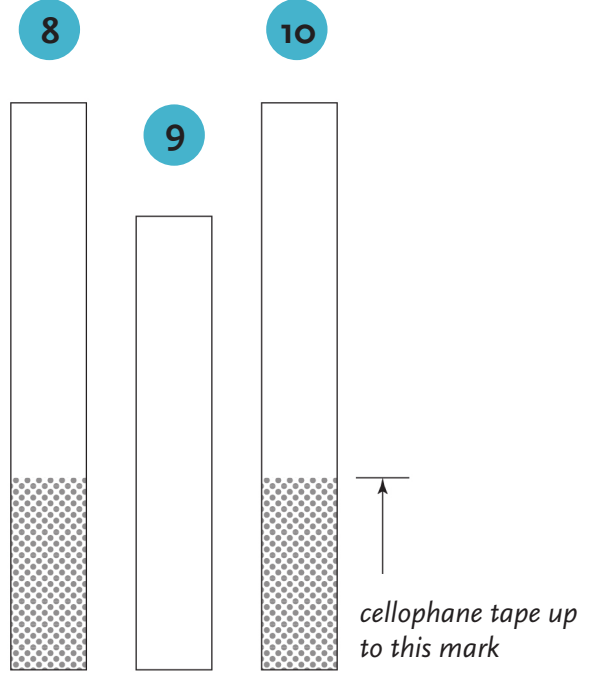
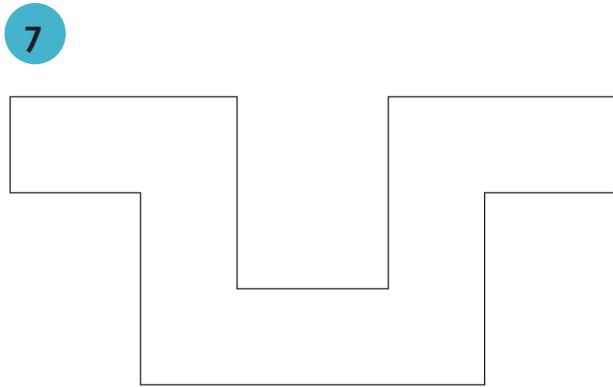
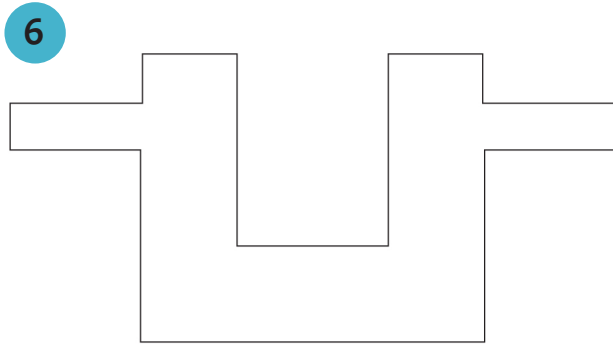
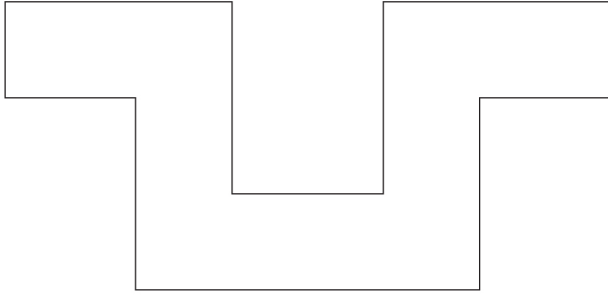
5

REMOVABLE SIDE DOOR — PLUGS

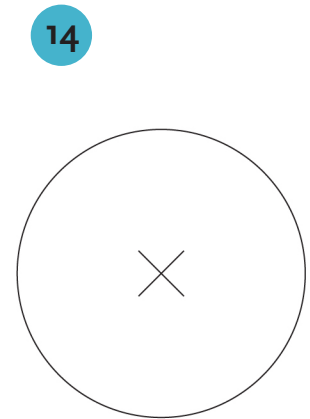
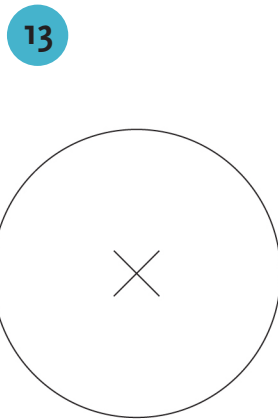


Glue page onto corrugated cardboard.

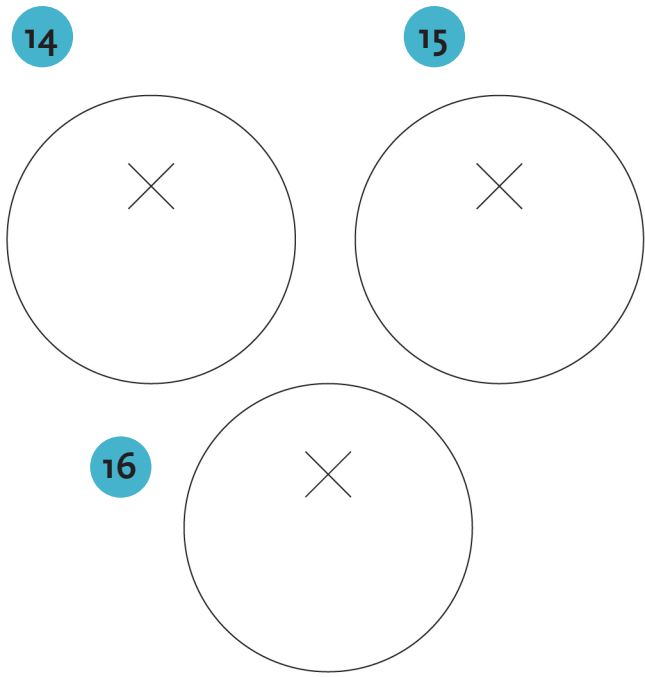
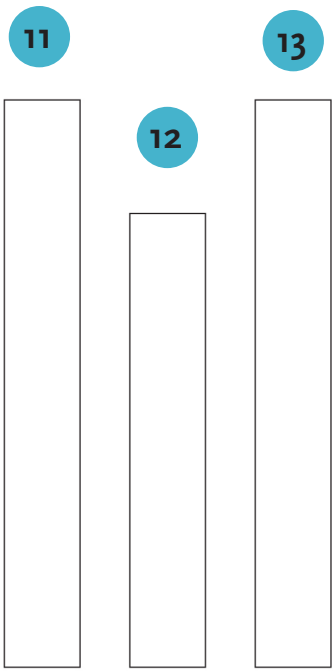
5 GEAR 2



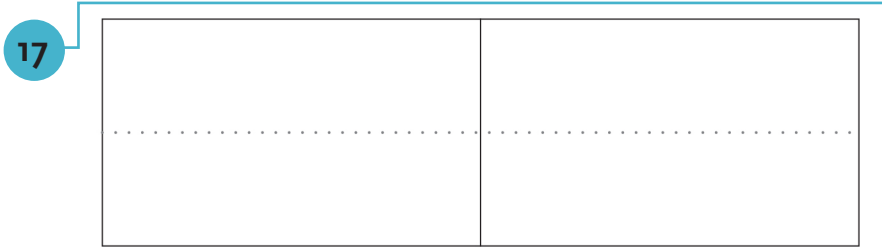
WASHER
- INSIDE



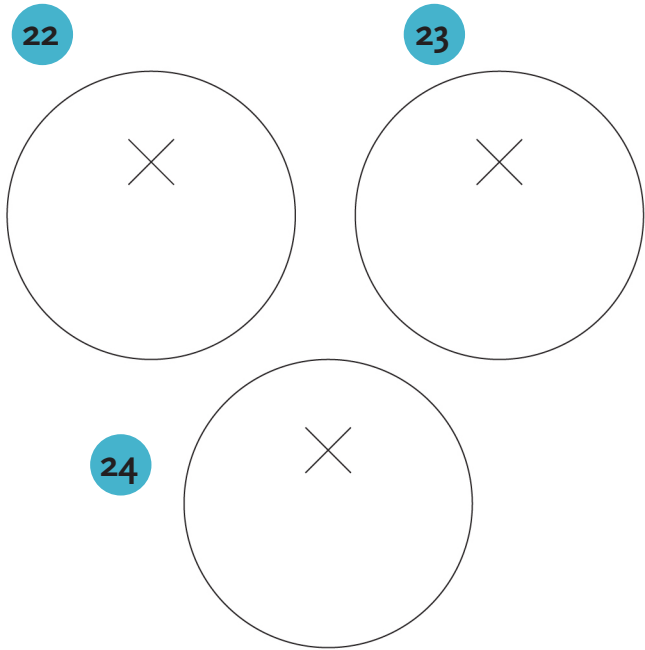
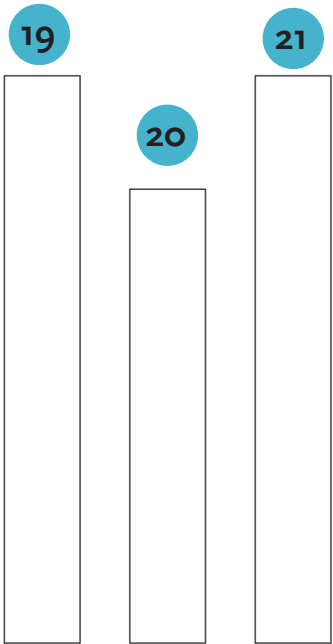
WASHER
- OUTSIDE



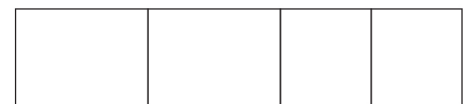
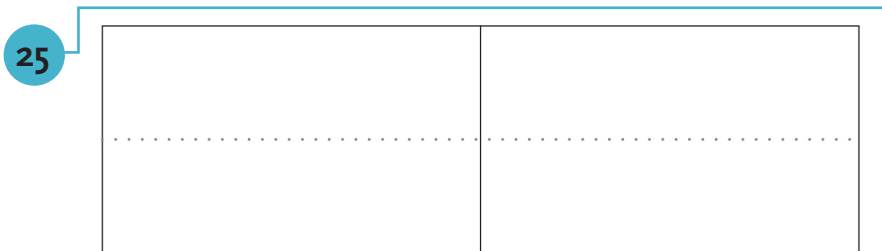
GEAR 1



18 longer width touches table



GEAR 3



26 longer width touches table

Glue page onto corrugated cardboard.

ASSEMBLY INSTRUCTIONS

IT'S A SMALL WORLD
AUTOMATA TOY

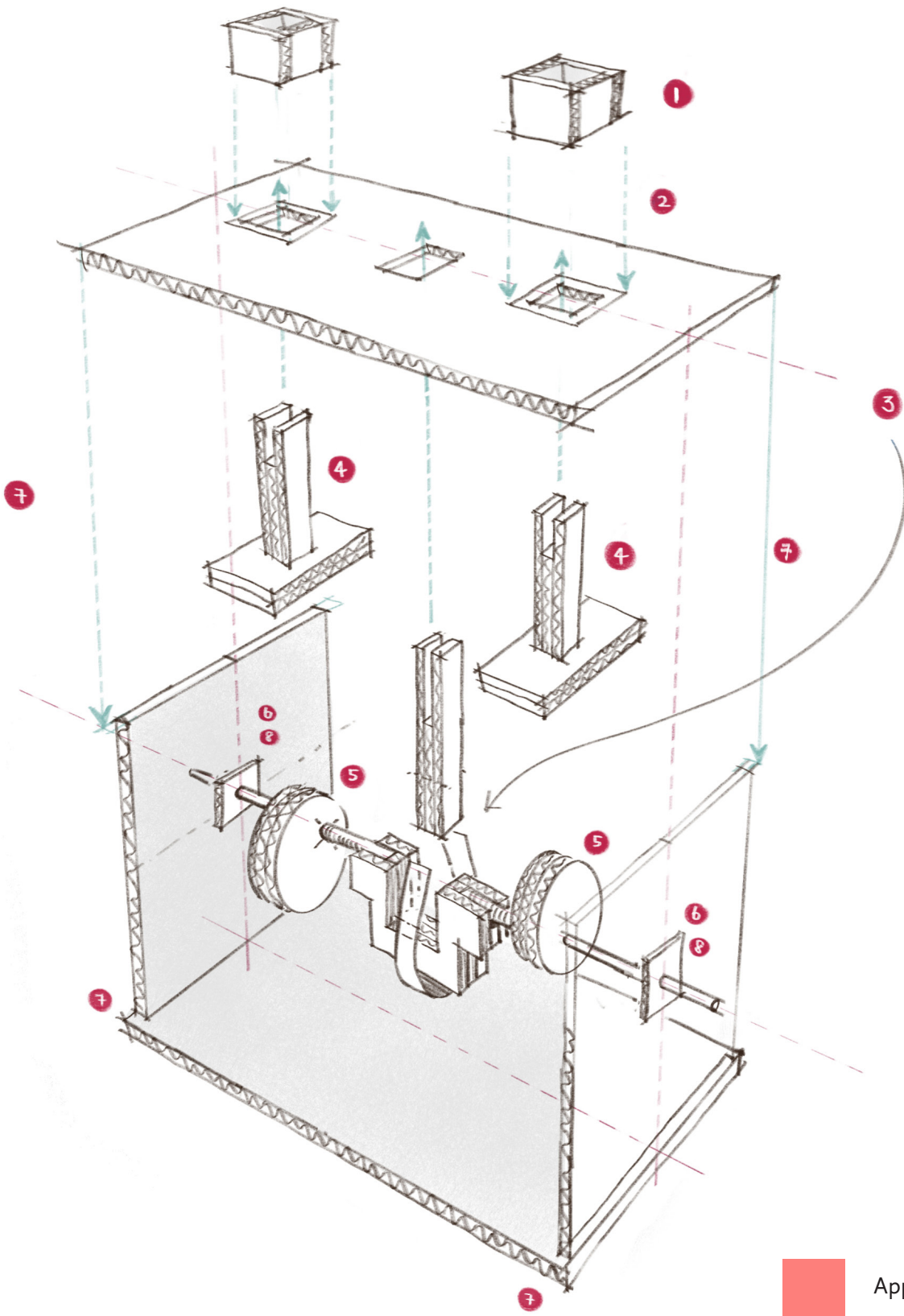
Before Assembly

1

Paste pages from “Parts Template” onto
corrugated cardboards

2

Cut out every part.



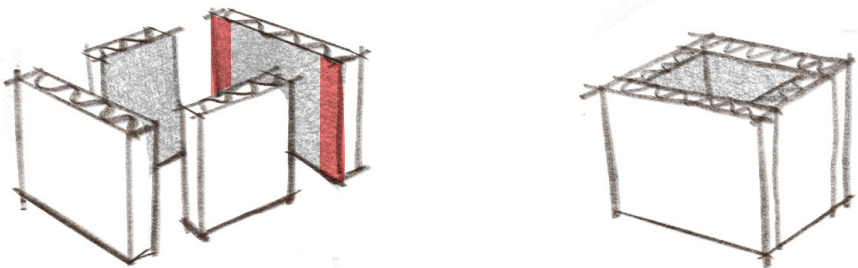
**LET'S BUILD
THE BASE**

1

* A bold number like this **88** means it is a part number.

18 & 26

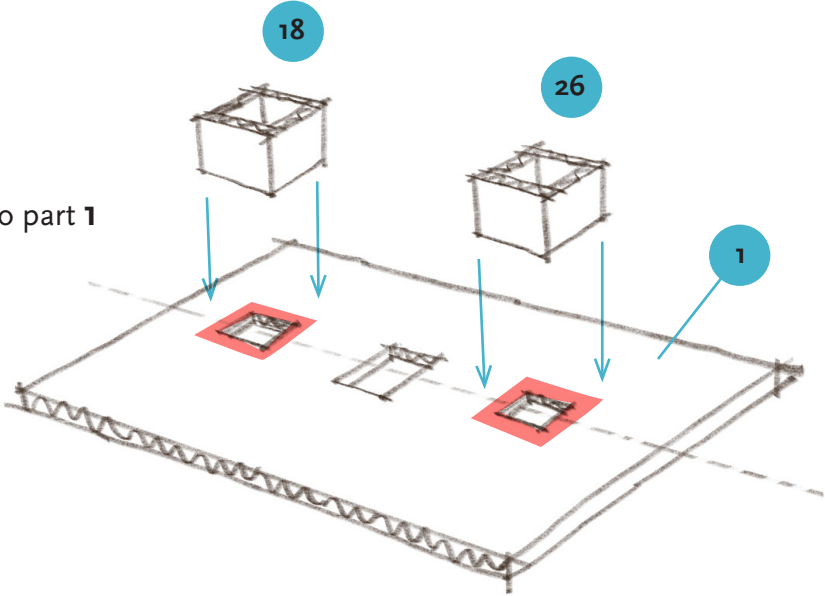
longer side of thickness faces down



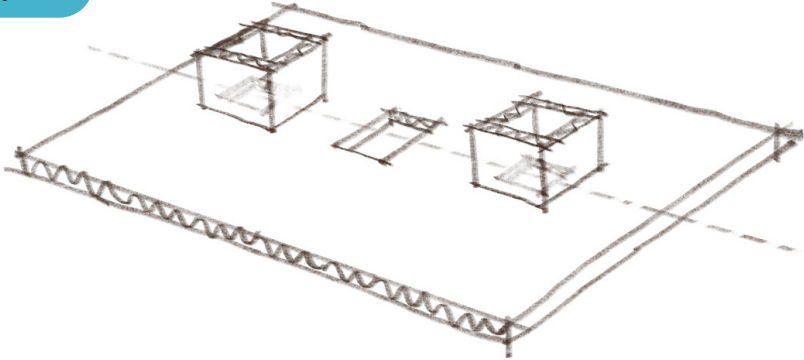
Glue all four parts of **18** and **26** into a rectangular short tube

2

Glue **18** and **26** onto part **1** to form **Group A**

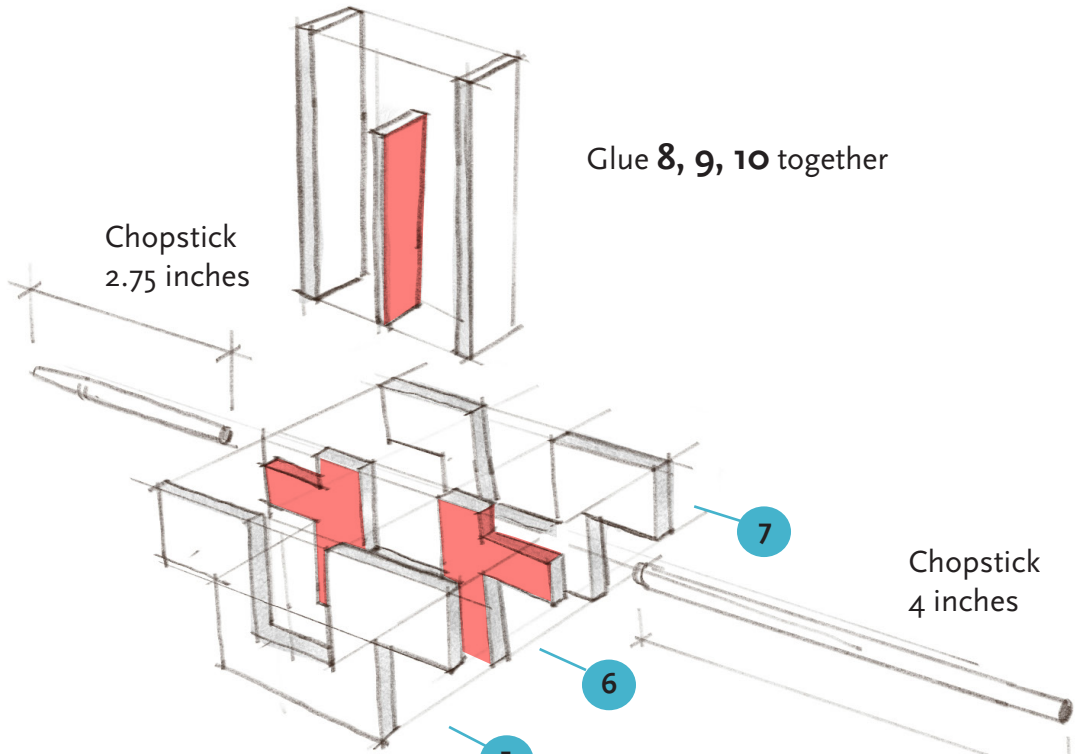


Group A

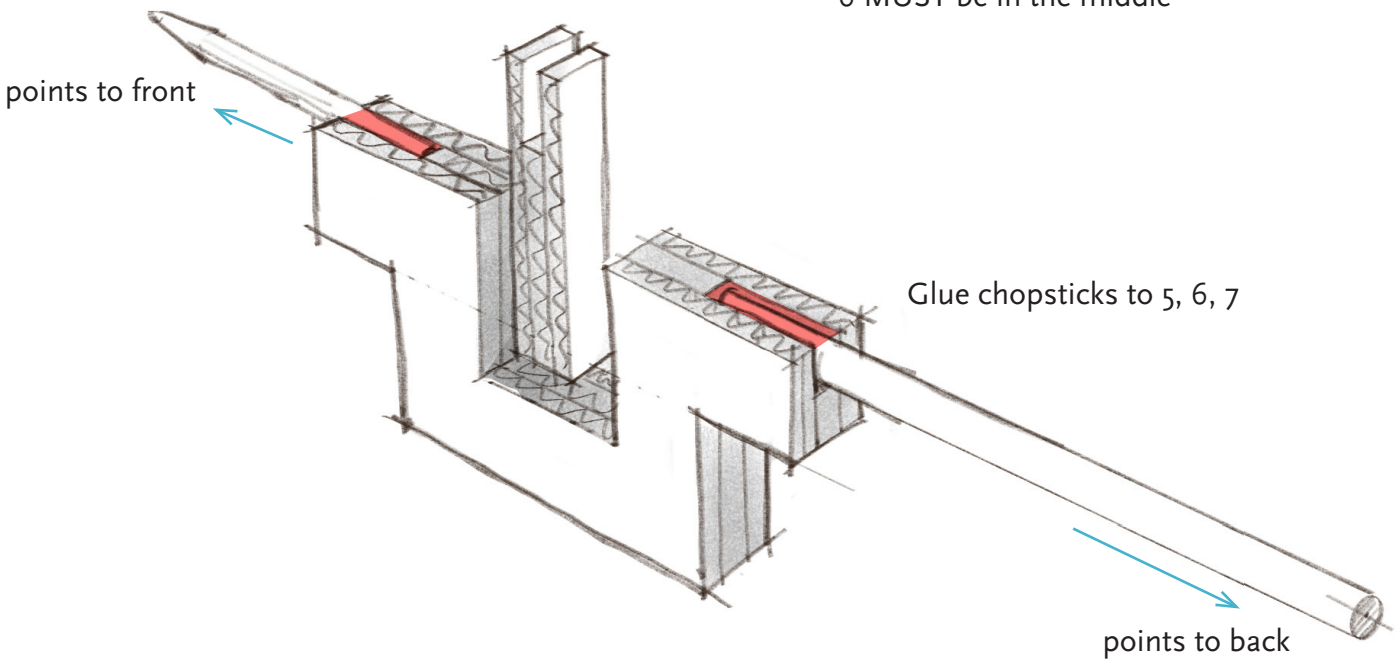


3.1

8 9 10



Glue 5, 6, 7 together.
6 MUST be in the middle



3.2

cellophane tape

4 inches

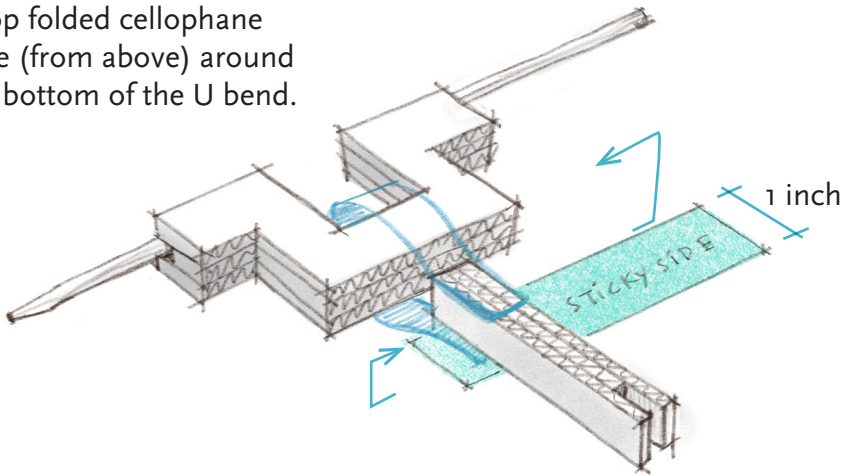


Fold cellophane tape onto itself. Only non-adhesive sides are left on the outside.

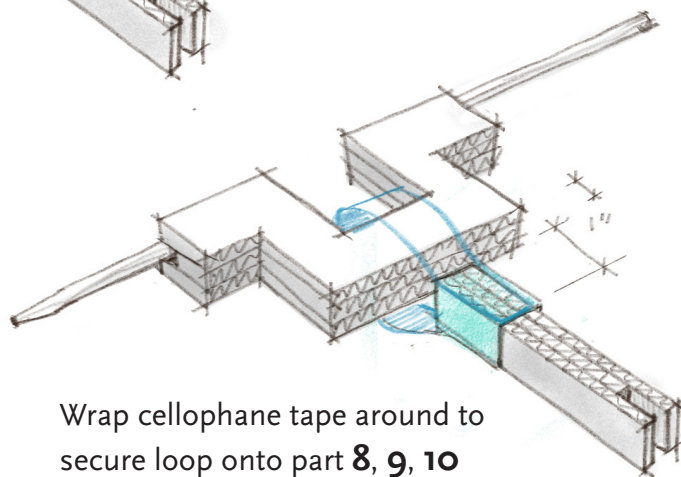
make sure width of folded tape is smaller than the U opening.

Position **8, 9, 10** as shown in diagram.

Loop folded cellophane tape (from above) around the bottom of the U bend.



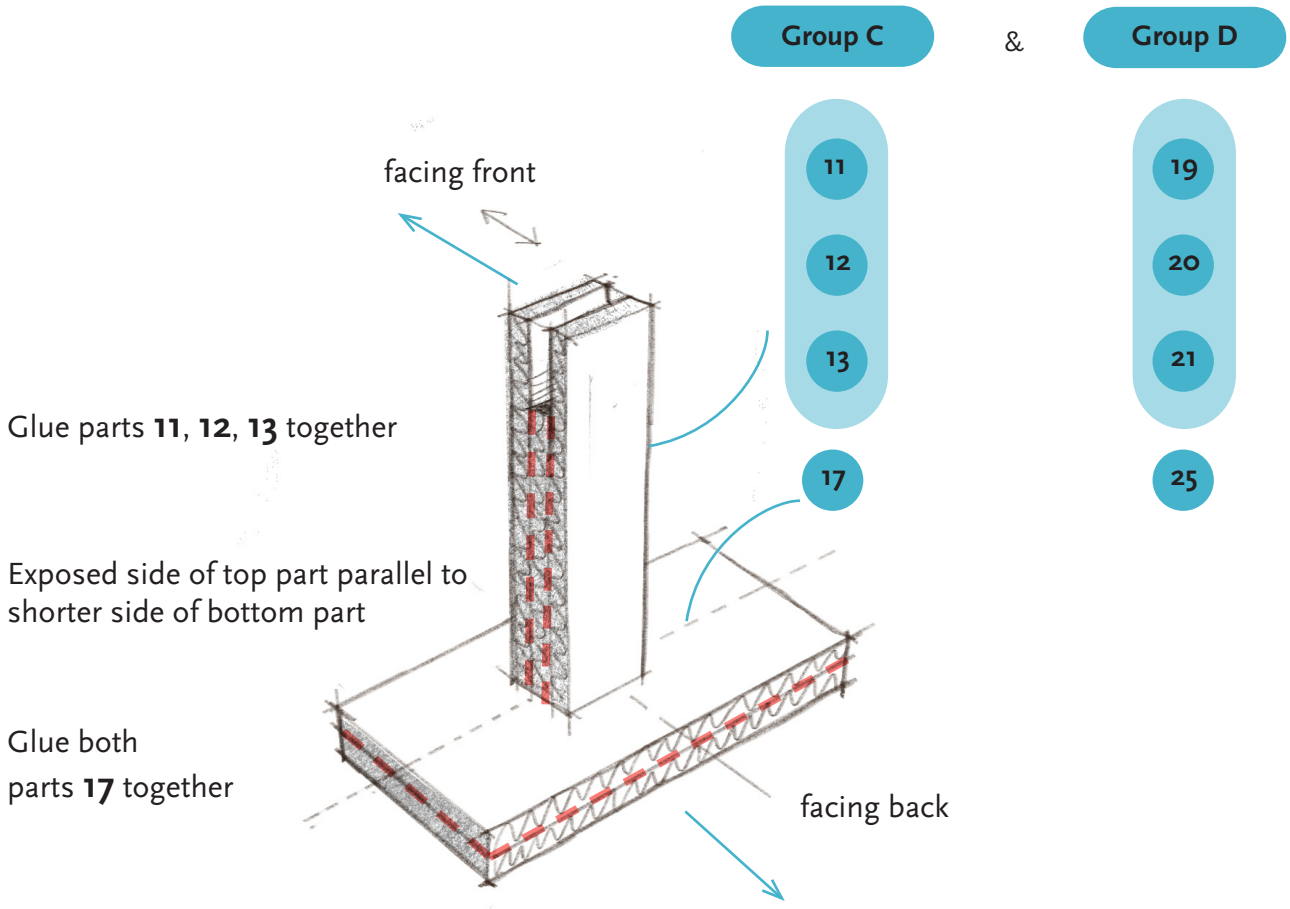
Place another 1 inch width cellophane tape with adhesive side upwards.



Wrap cellophane tape around to secure loop onto part **8, 9, 10**

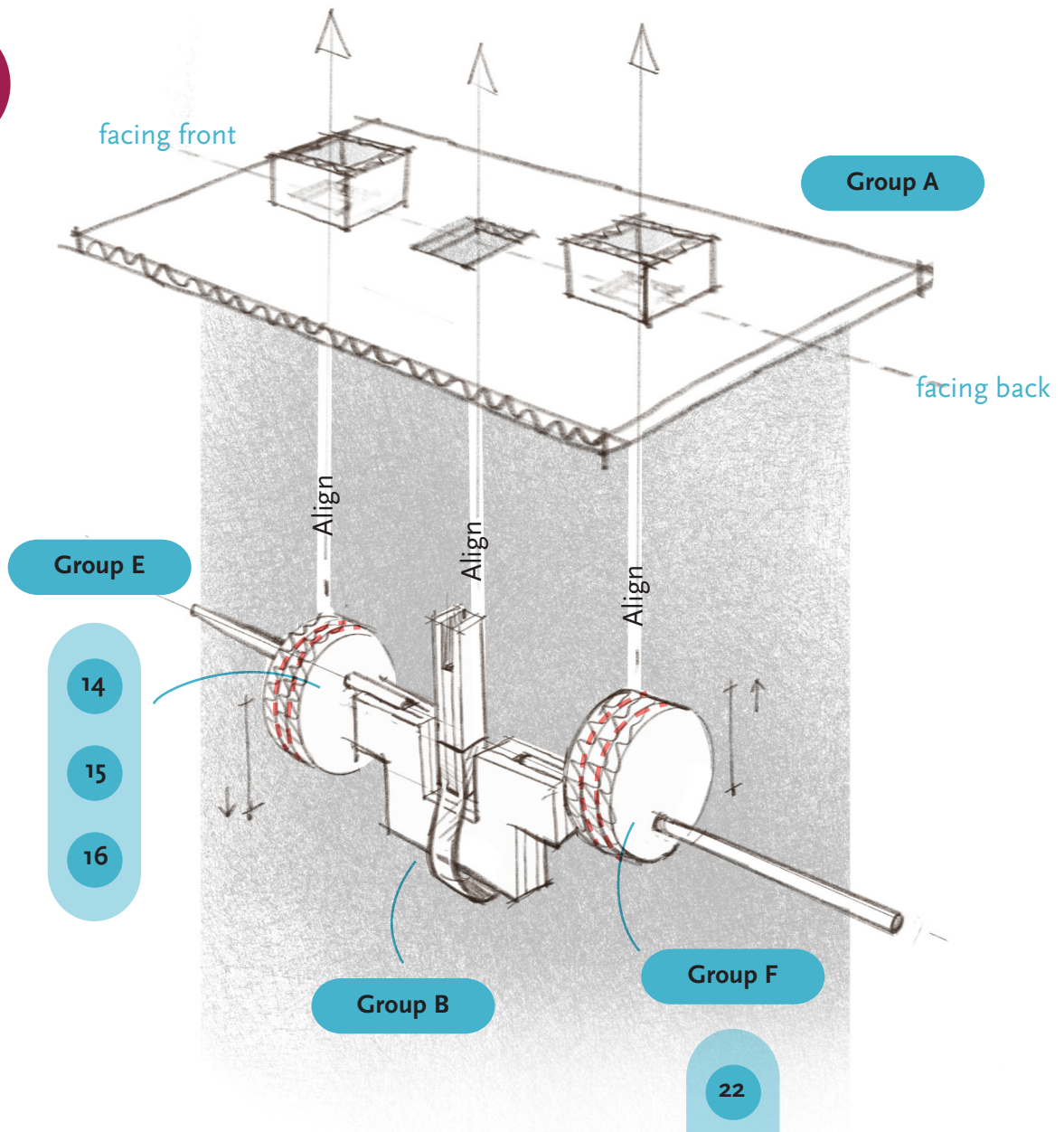
Group B

4



Repeat above steps with part 19, 20, 21 and 25

5

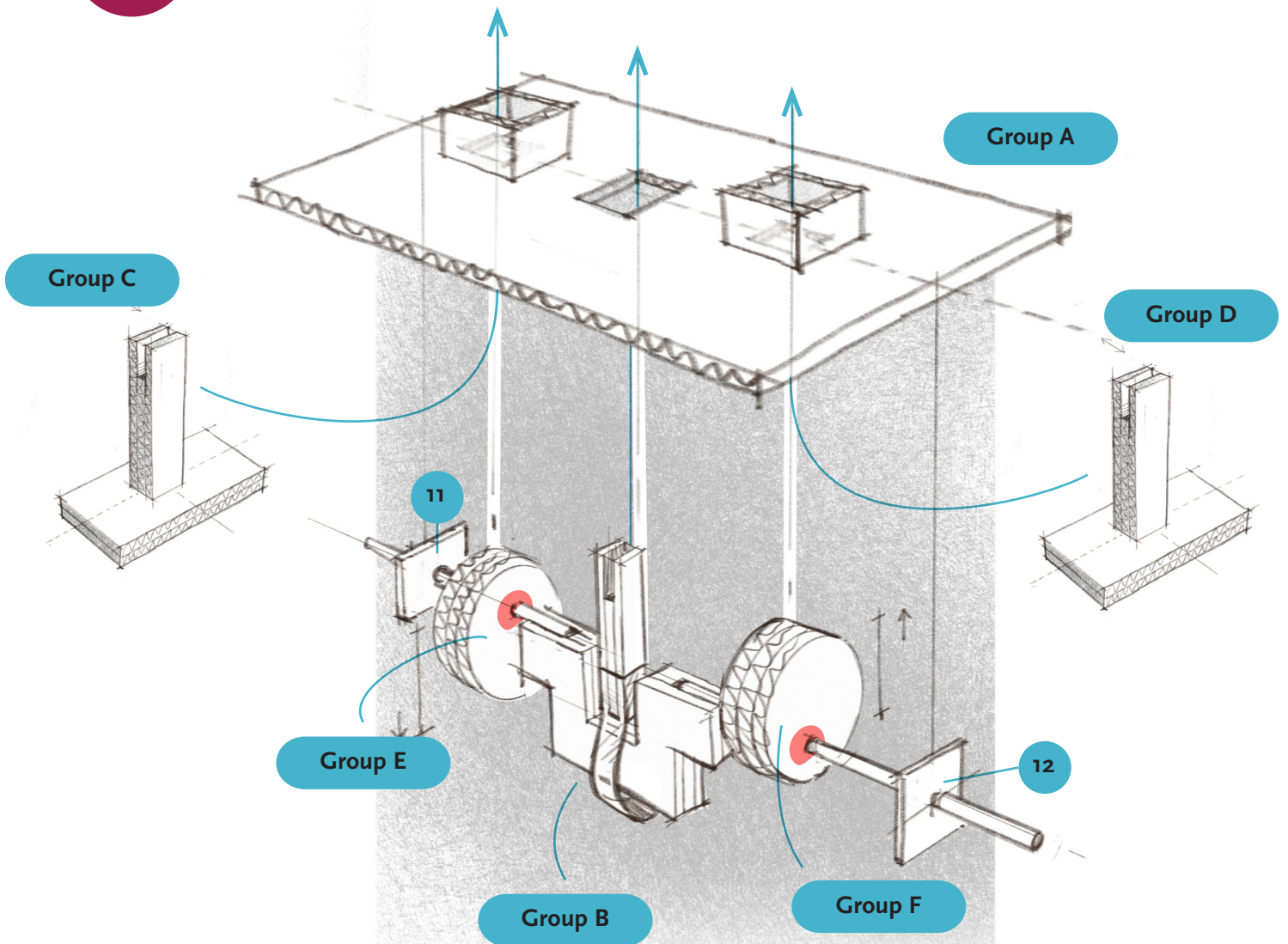


Align **Group B** to middle hole of **Group A**, longest side parallel to each other.

Insert **14, 15, 16** on shorter end of chopstick, align to front hole on **Group A**. Glue discs together. Glue should not touch chopstick.

Insert **22, 23, 24** on longer end of chopstick, align to back hole on **Group A**. Glue discs together. Glue should not touch chopstick.

6



Confirmed all 3 gears **Group B, Group E, Group F** are aligned to top holes. Glue front and back discs to chopstick.

Insert 11 onto shorter end of chopstick.
DO NOT GLUE yet.

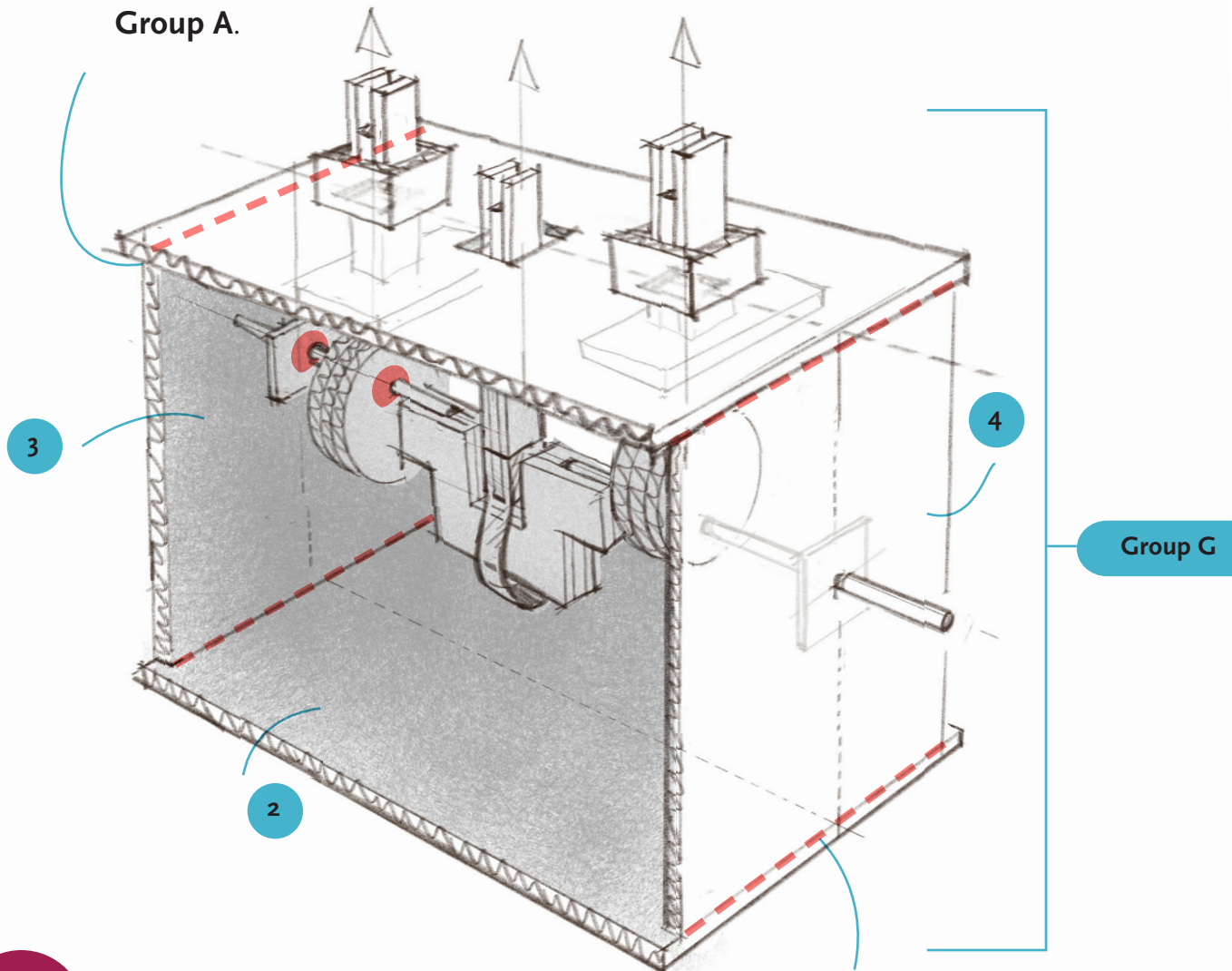
Insert 12 onto longer end of chopstick.
DO NOT GLUE yet.

7

Align **1**, **2**, **3**, **4**'s middle line.

Glue **3**, **4** to front and back edges of **Group A**.

3, **4** must be UNDERNEATH **Group A**.



8

Glue **2**, to **3** and **4**.
2 and **1** should sandwich **3**, **4**.

Confirmed **11** is flushed against inside wall.
Confirmed **12** is flushed against inside wall.

Glue **11**, **12** to chopstick on the side that faces inside.

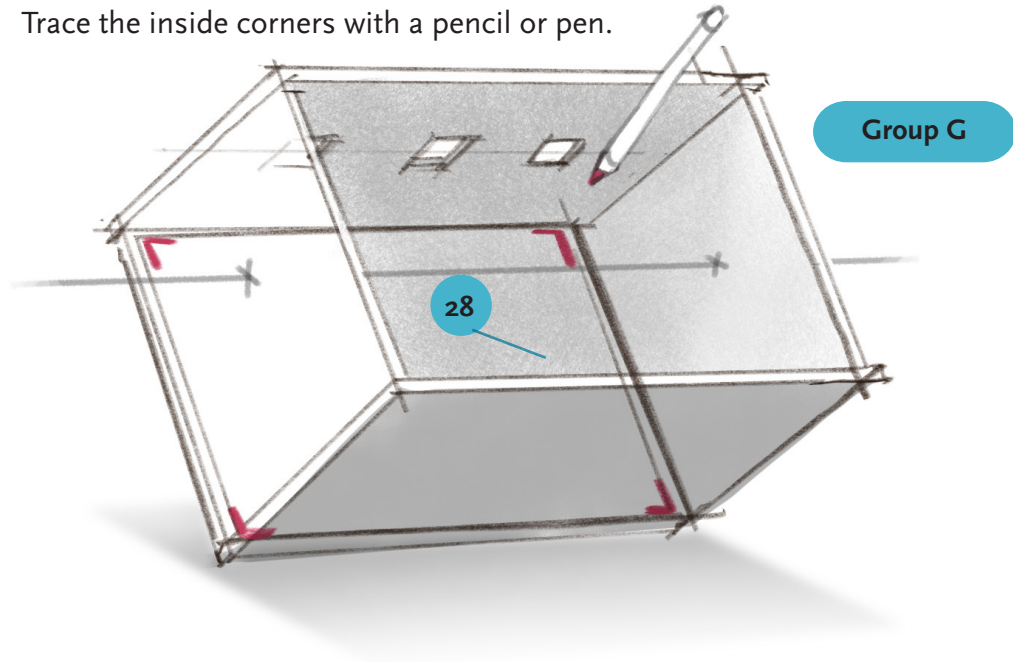
DO NOT glue **11**, **12** to interior walls.

This step secures the positioning of each gear to each aligned hole above.

9

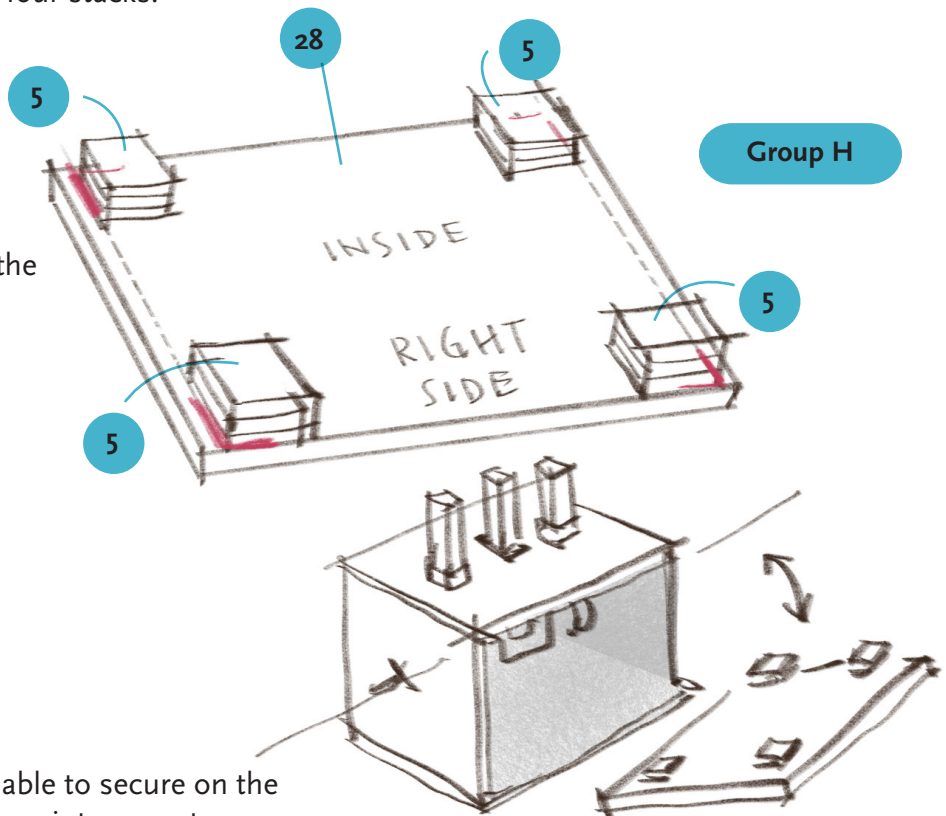
Position **28** against one side of **Group G**, with art facing outwards.

Trace the inside corners with a pencil or pen.



Glue **5** together using three small pieces to create a stack. Repeat until you have four stacks.

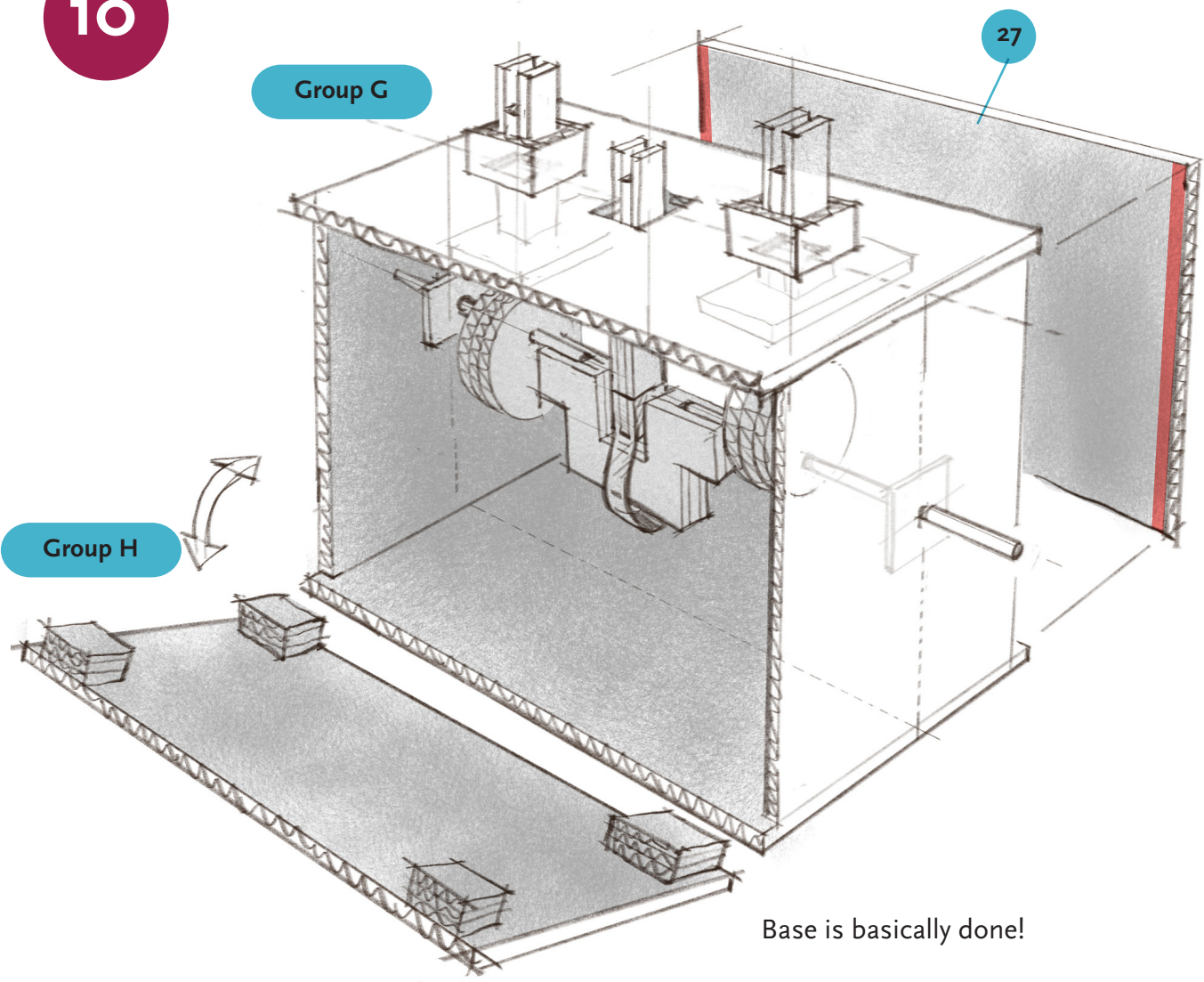
Glue each group of **5** onto **28**, against the lines we traced from the step above.



Group H should be able to secure on the side. This allows gear maintenance to occur in the future.

Glue **27** to the other side of **Group G**

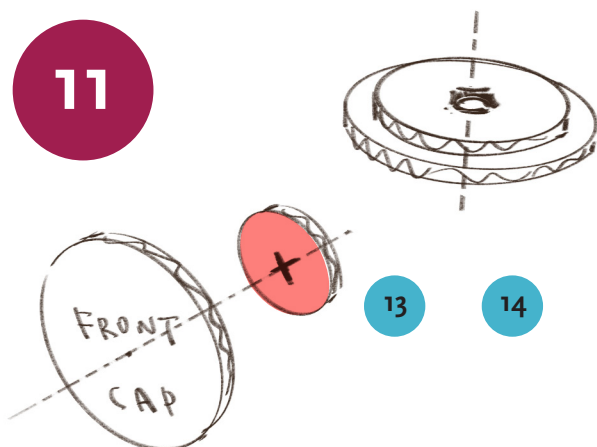
10



Base is basically done!

Dress up this base with any desired design.

11



Group I

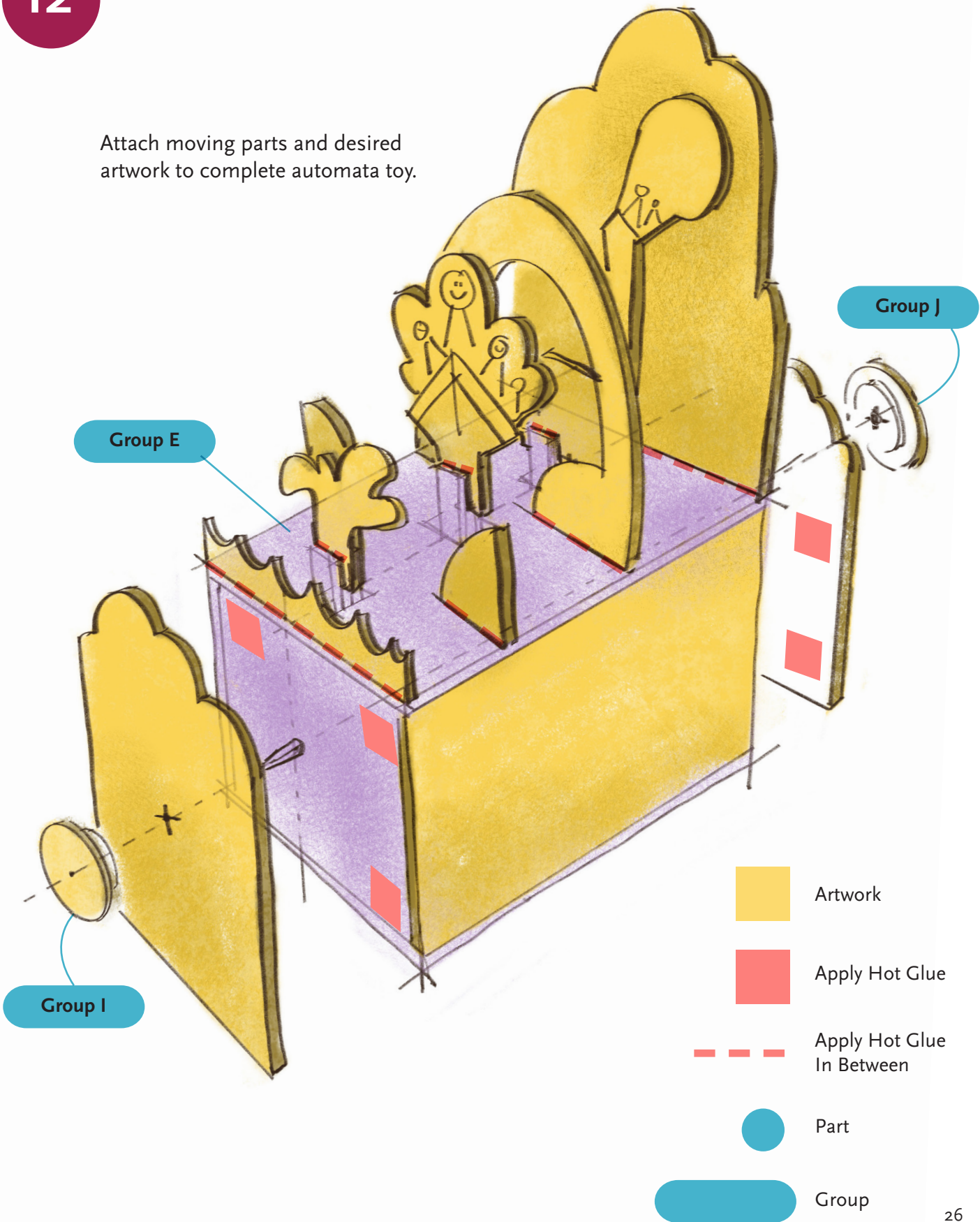
Poke a hole through **13**.
Glue **13** to back of front cap.

Group J

Poke a hole through **14**.
Glue **14** to back of end cap.

12

Attach moving parts and desired artwork to complete automata toy.



Thank you for following along!

