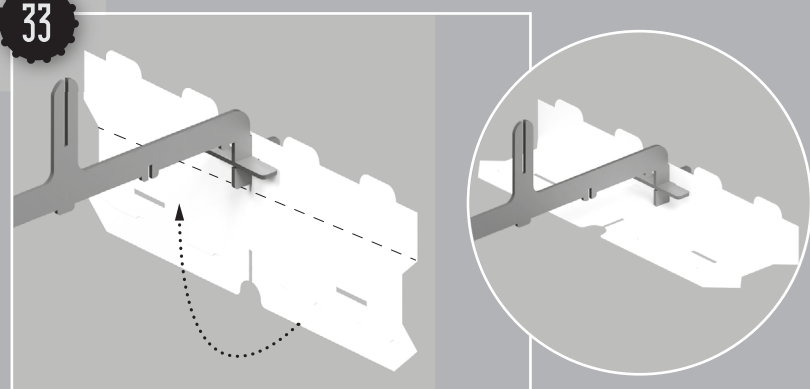
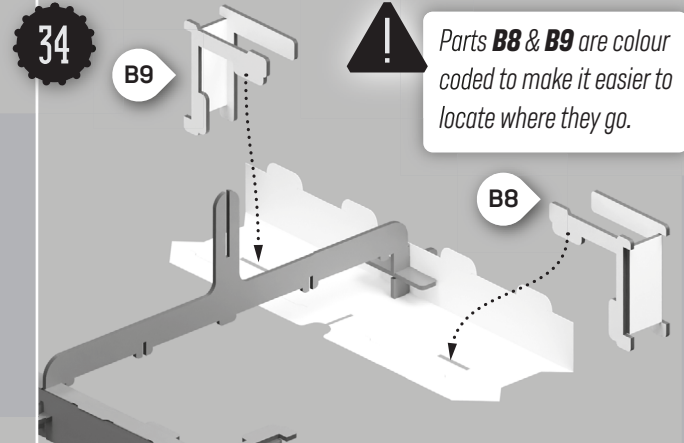


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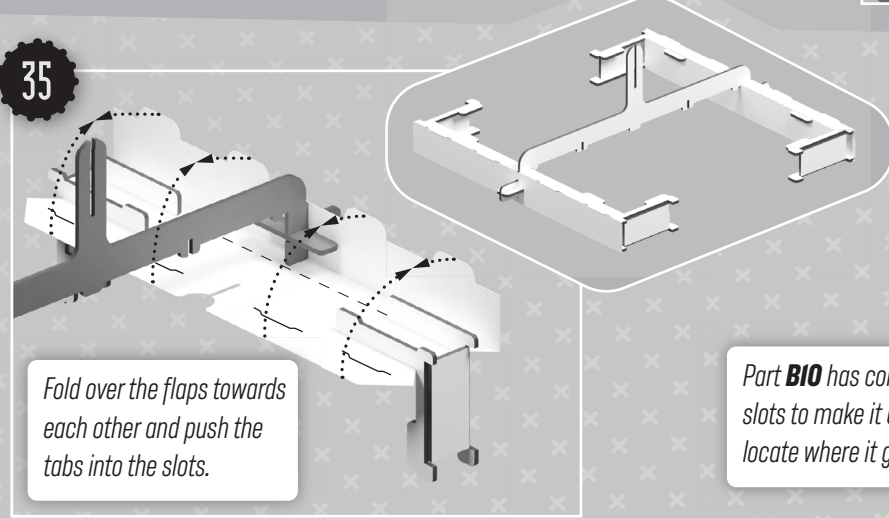


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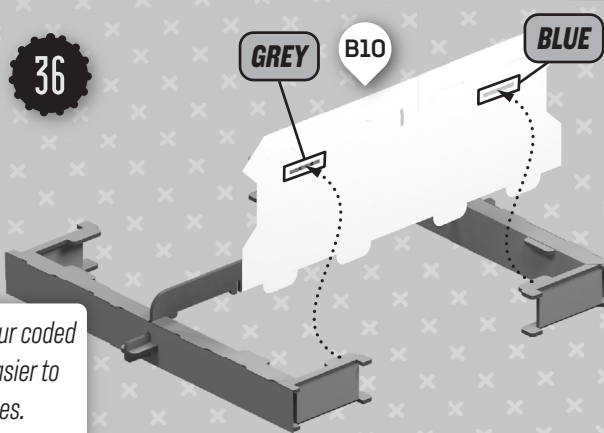
Parts **B8** & **B9** are colour coded to make it easier to locate where they go.

35



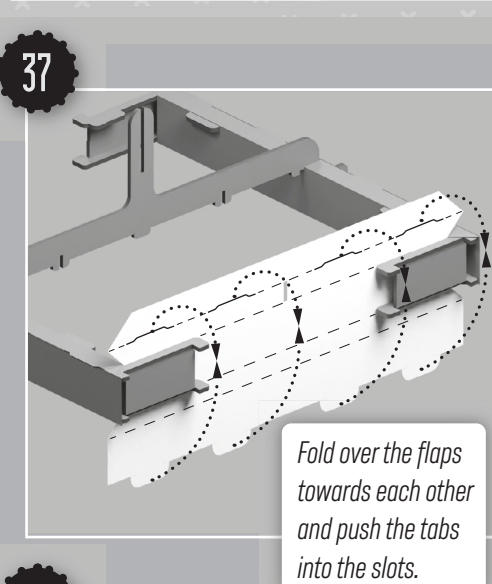
Fold over the flaps towards each other and push the tabs into the slots.

36



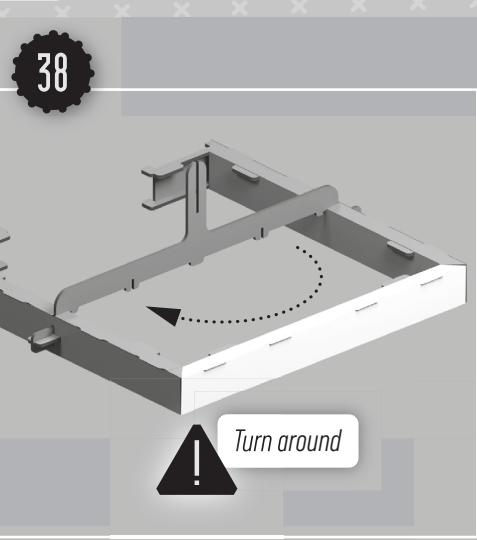
Part **B10** has colour coded slots to make it easier to locate where it goes.

37



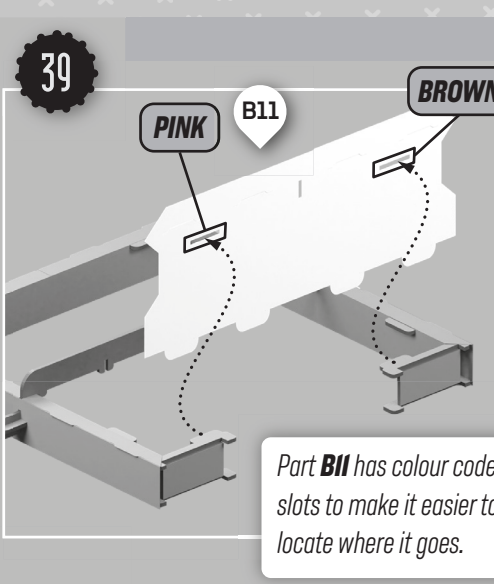
Fold over the flaps towards each other and push the tabs into the slots.

38



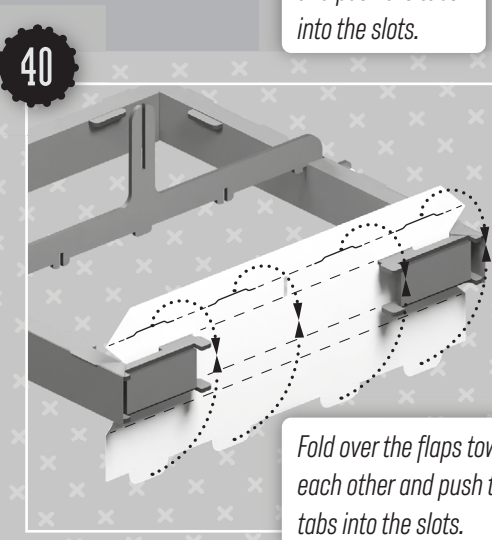
Turn around

39



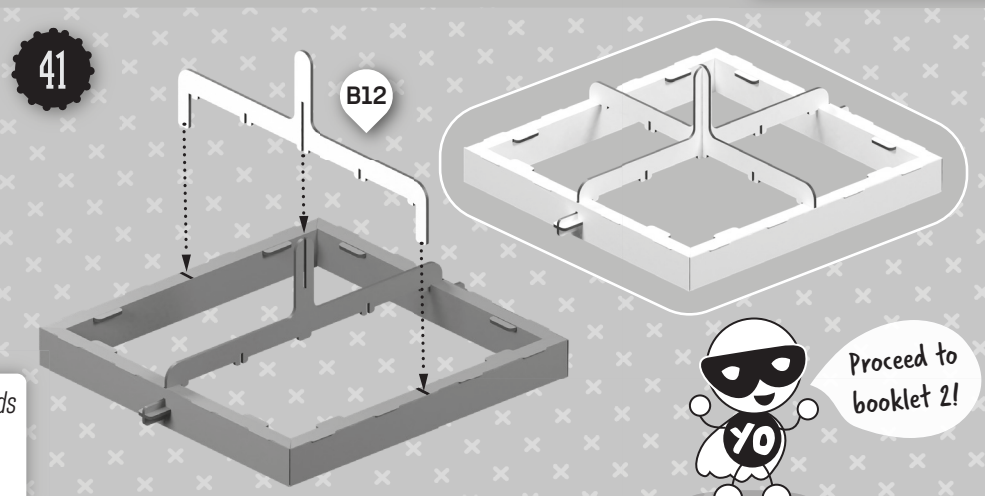
Part **B11** has colour coded slots to make it easier to locate where it goes.

40



Fold over the flaps towards each other and push the tabs into the slots.

41



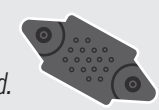
BUILD YOUR OWN

# MARBLE LABYRINTH

## INSTRUCTION BOOKLET 1

### BEFORE YOU START

- The marbles are in the brown envelope in the top pocket of the outer box.
- You may find it easier to pre-crease all the folds on the thin card parts before you build each step.
- Use the **Removal Tool** to help push out the smaller bits of card.
- Take your time!** Don't rush otherwise you may damage your Marble Labyrinth.



Recommended age 8+

**WARNING!** Not suitable for children under 3 years. Small parts. Choking Hazard.

**WARNING!** Choking Hazard. Contains marbles.

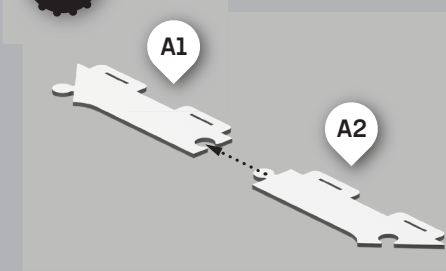
**WARNING!** Do not leave the marble labyrinth unattended, especially with younger children who may not be familiar with the risks mentioned above.

Always count and pack up the marbles after use.

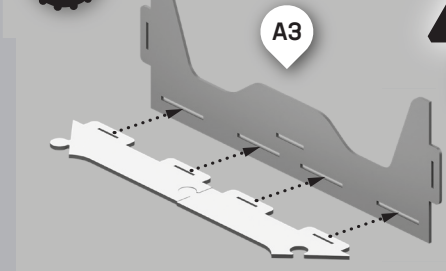
To be used under adult supervision.

Retain this packaging for future reference.

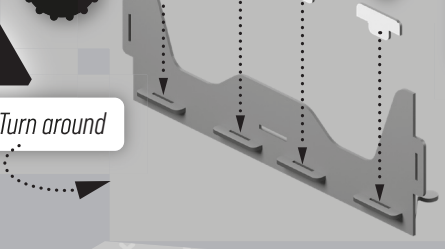
1



2

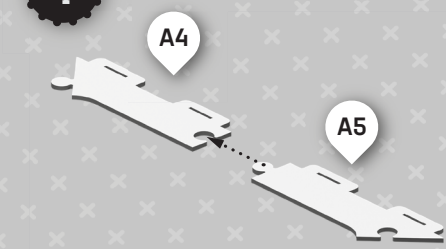


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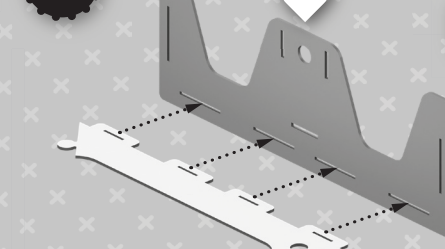


**SIDE A** finished. Put to one side for step 13.

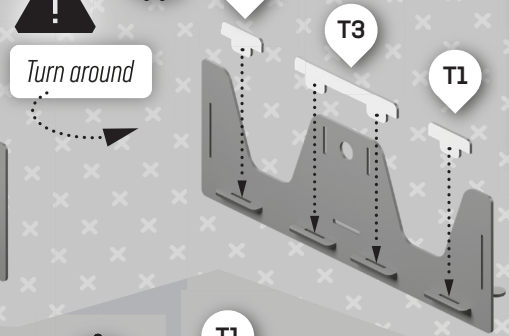
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5

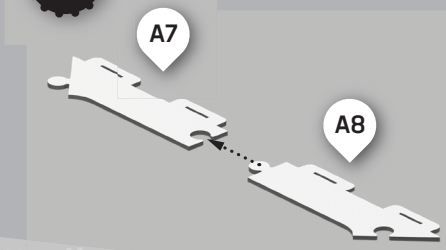


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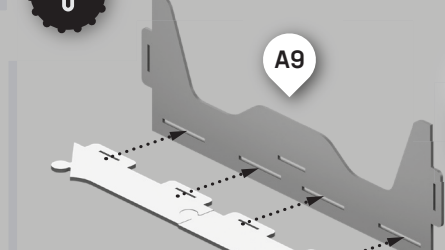


**SIDE B** finished. Put to one side for step 13.

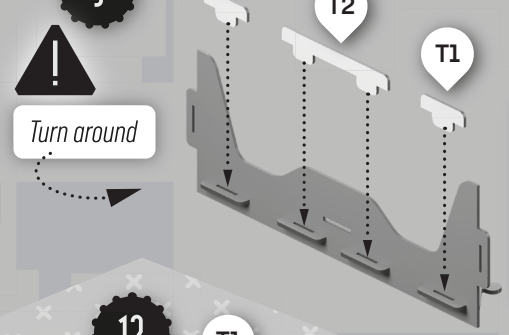
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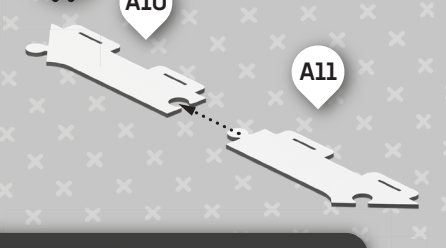


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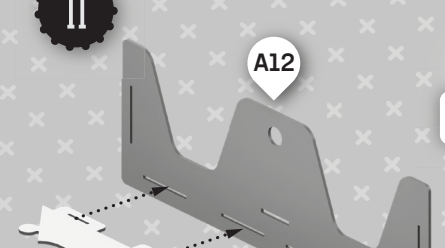


**SIDE C** finished. Put to one side for step 13.

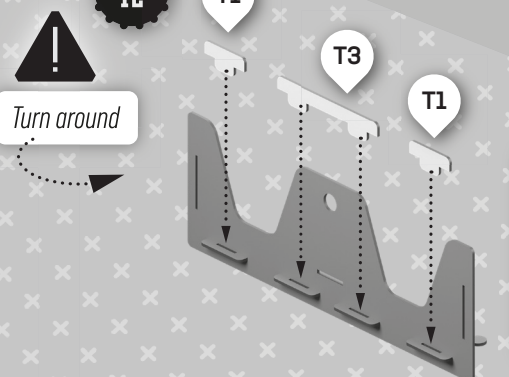
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11



12

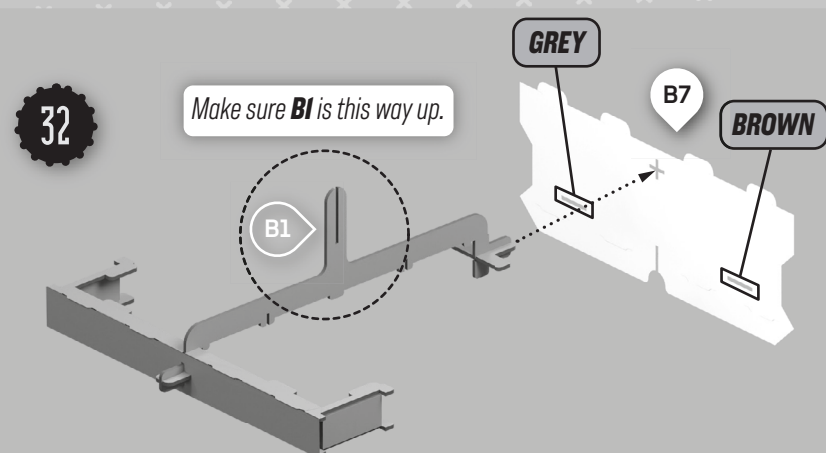
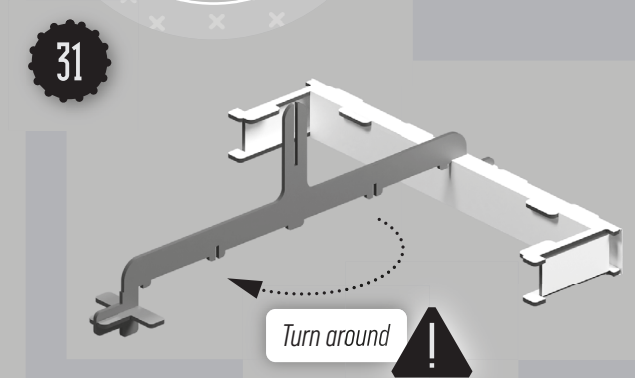
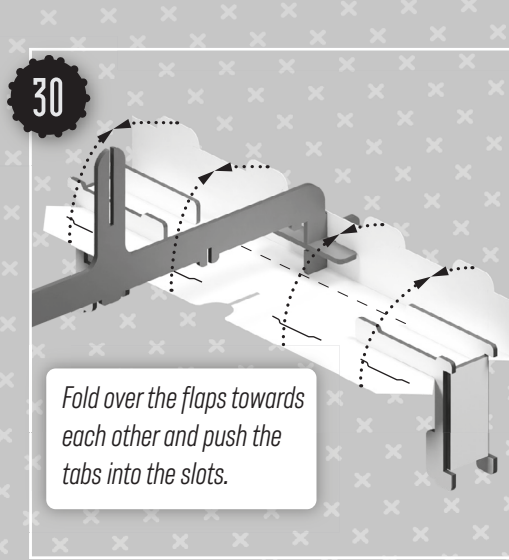
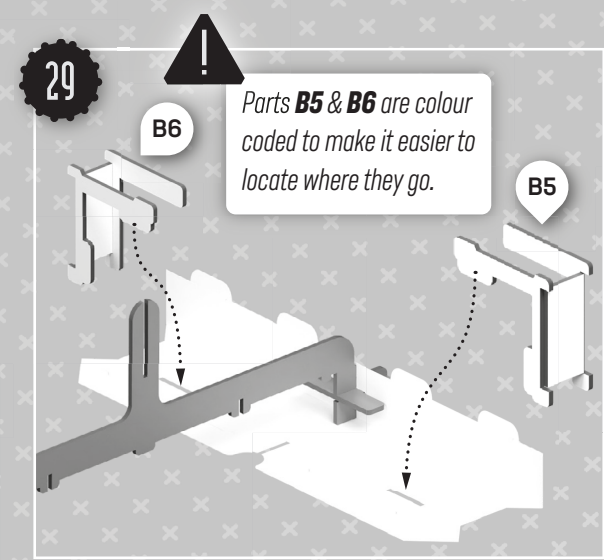
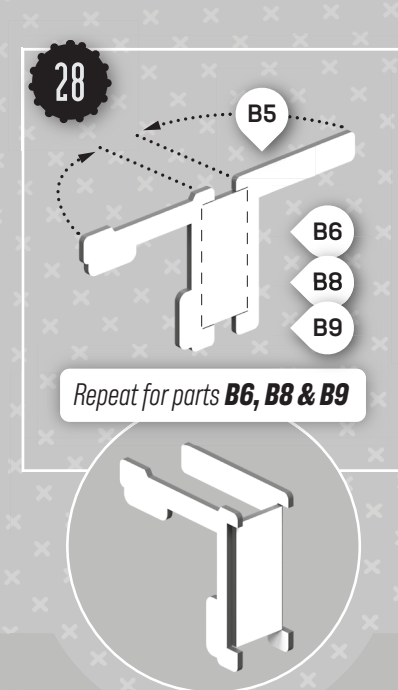
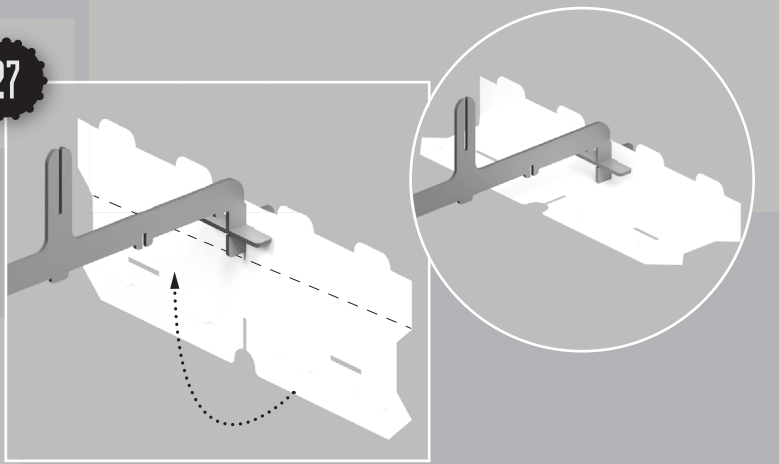
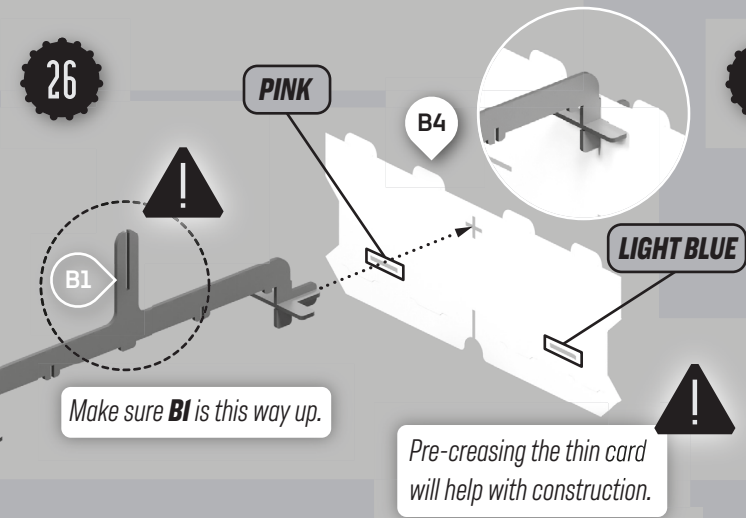
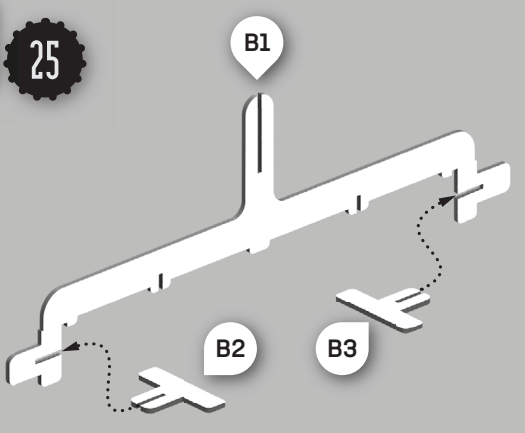
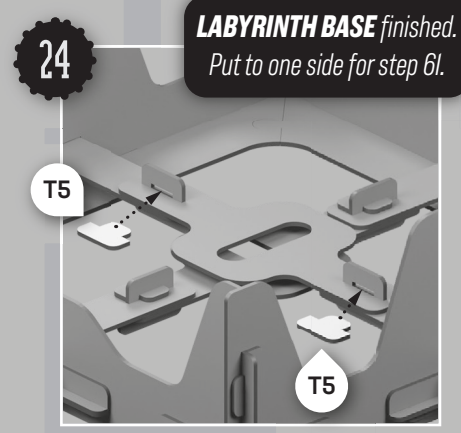
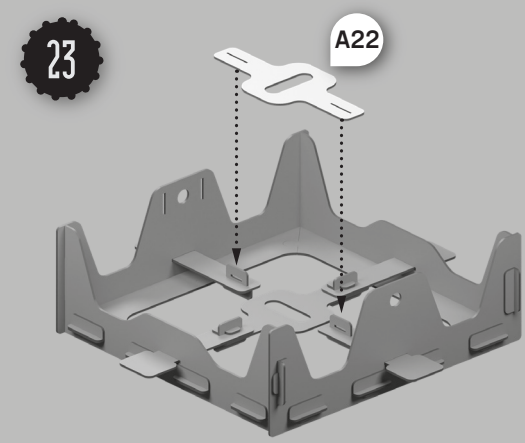
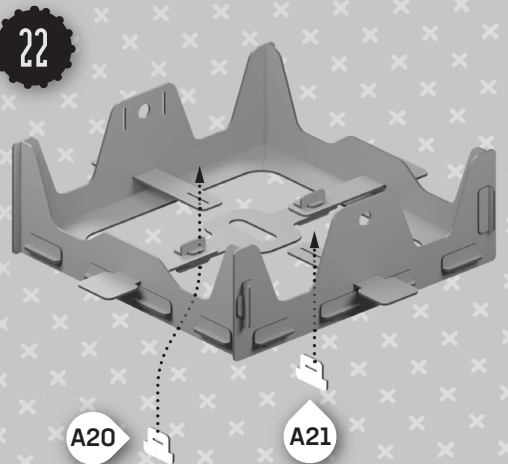
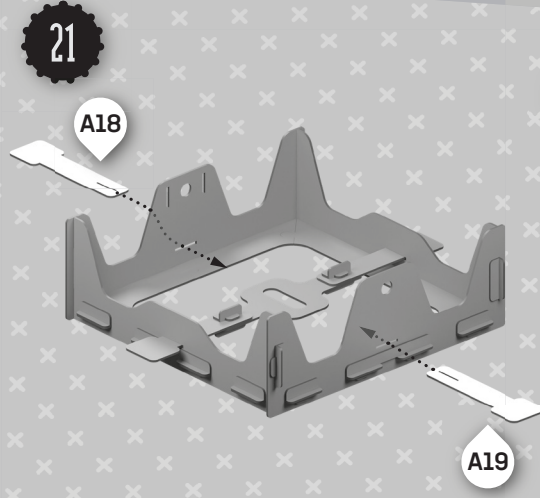
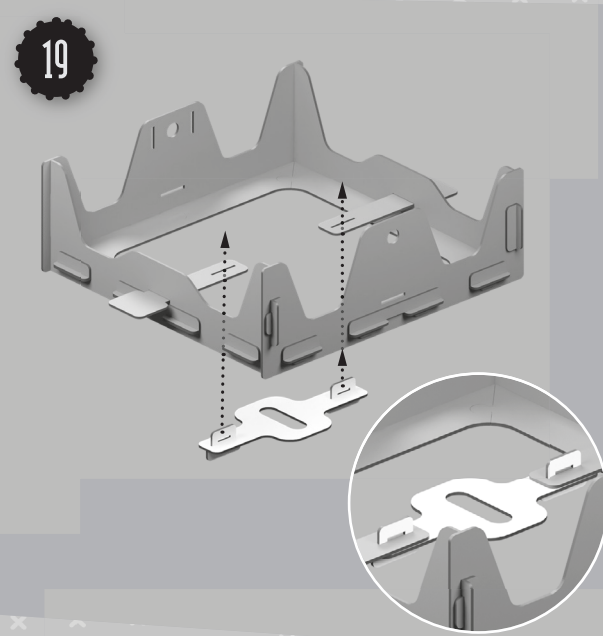
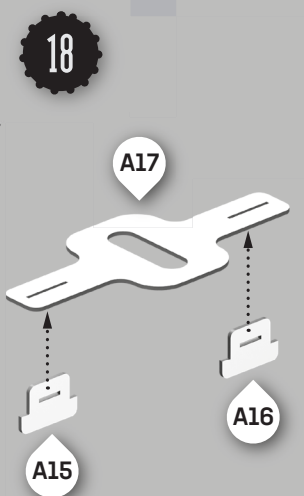
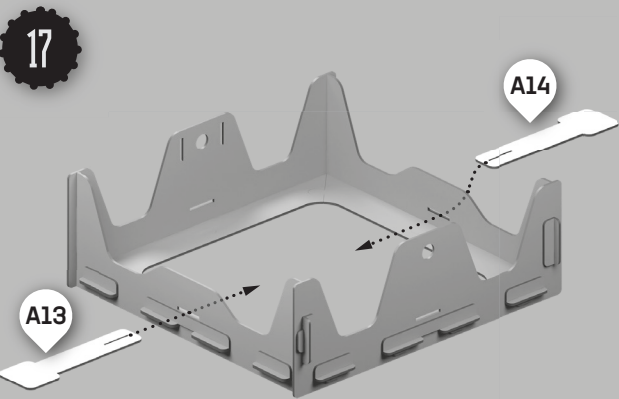
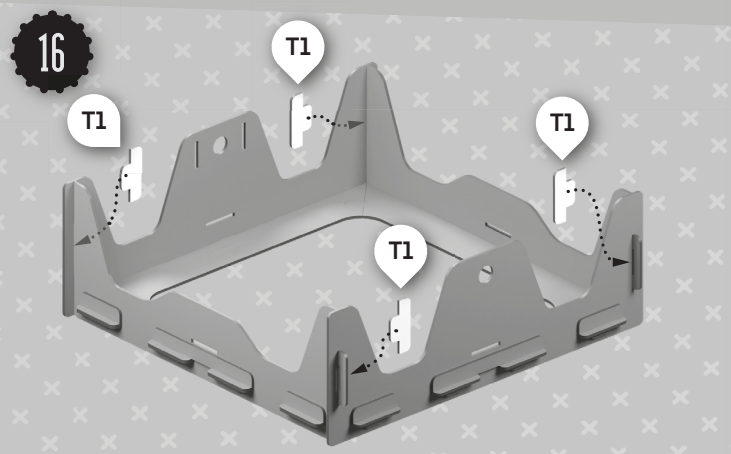
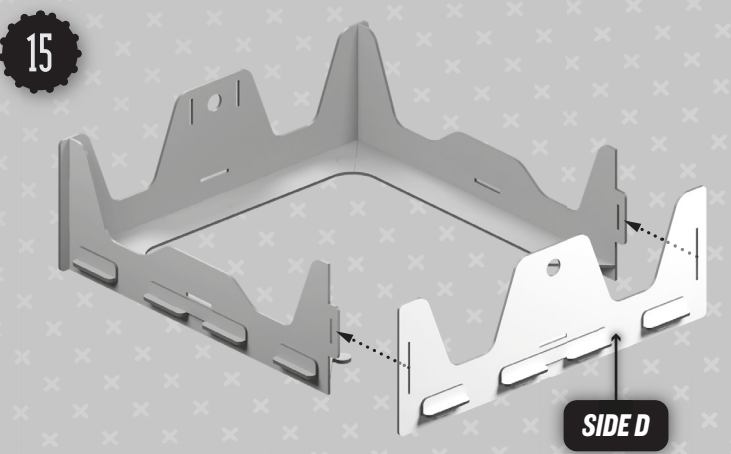
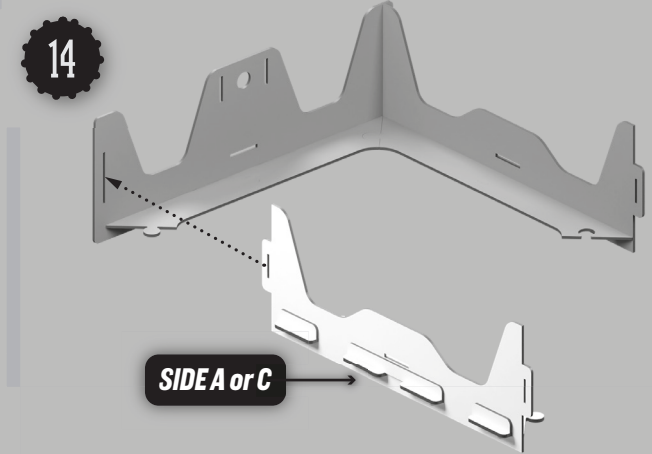
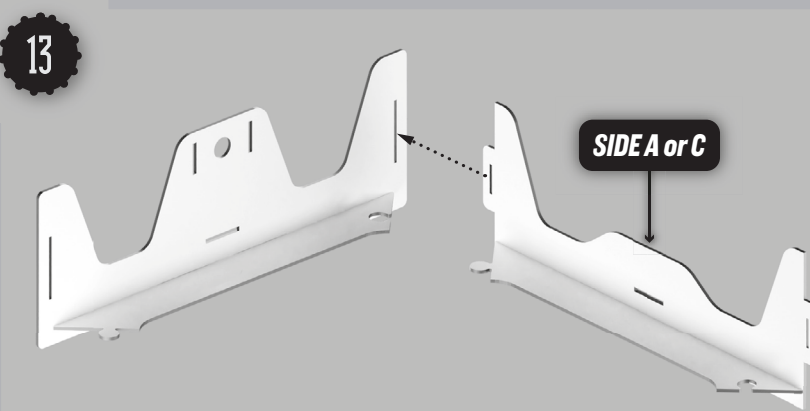


**SIDE D** finished. Put to one side for step 13.

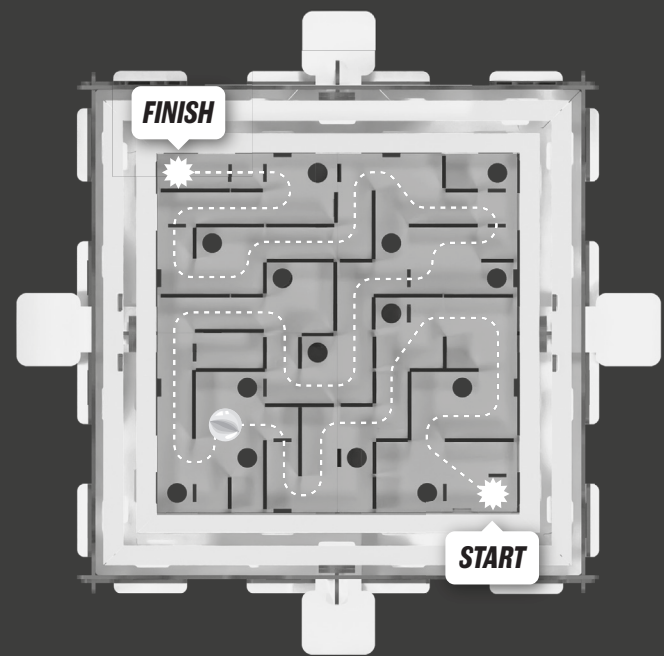
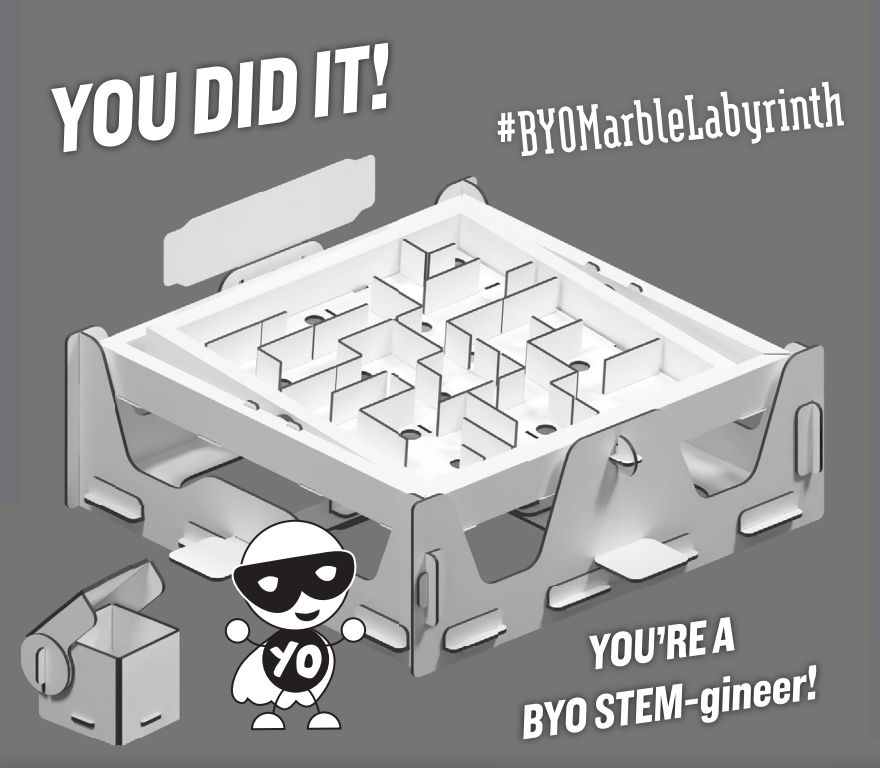


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buildyourownkits.com









Place your marble at the **START** point. Now push and pull the **TABS**, tilting the labyrinth to navigate the marble to the **FINISH**. But beware of the traps! If your marble drops into one of the holes, you must go back to the **START** and try again.

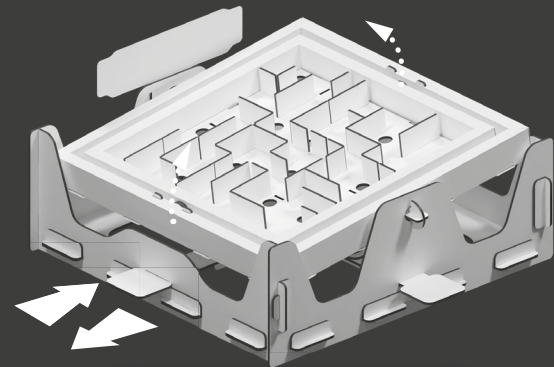
You will need practice and a steady hand. Take your time and before long you'll be a master!

Want a new challenge? Try designing your own labyrinth by moving the walls around. You can even rearrange the base boards to really mix things up. For more ideas on layouts, scan the QR code to download a PDF.

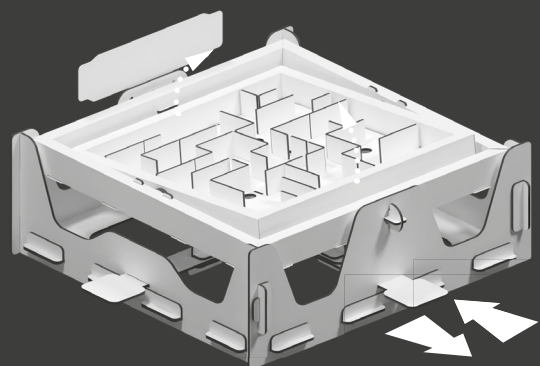
SCAN HERE



## How to use your Marble Labyrinth

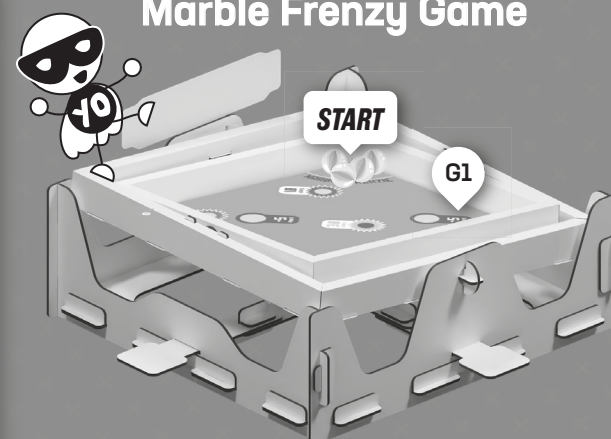


Pushing and pulling the **LEFT HAND TAB** to tilt the labyrinth side to side.



Pushing and pulling the **RIGHT HAND TAB** to tilt the labyrinth front to back.

## Marble Frenzy Game



Marble Frenzy combines the skills you've learnt from mastering the labyrinth with the craziness of four marbles!

Replace the labyrinth boards with the Marble Frenzy board **G1**. Tilt the frame down in the top right corner and place four marbles in the START area. Now use your skills to get each of the marbles into the scoring holes. But mind the trap holes! Deduct 5 points for every time a marble drops through.

## What is a Labyrinth?

A Labyrinth is a **complicated maze-like** structure, normally **underground**, as referenced in **Greek mythology** (see below to find out more!) Labyrinths have appeared in many ancient cultures including **Egypt** and **India**. Although normally used interchangeably, there is sometimes a **difference** drawn between mazes and labyrinths:

**Maze:** a puzzle with multiple branching paths and a choice of direction

**Labyrinth:** a puzzle with one path to the centre



To the **right** is an example of a labyrinth with one path:

## Theseus and the Minotaur

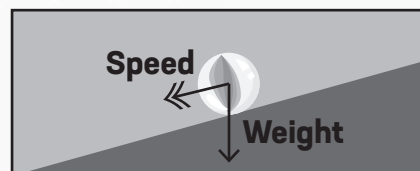
In Greek Mythology, the Minotaur was a **half man half bull**, who fed on human flesh. To keep the Minotaur trapped, **King Minos** of Crete ordered an elaborate prison to be built. It was known as the **Labyrinth** - a vast underground maze of narrow passageways. It would be impossible for the Minotaur to leave, and for anyone inside to find their way out.

King Minos' son was killed by soldiers from **Athens**. As revenge, King Minos ordered 7 young men and women from Athens to be fed to the Minotaur each year. **Theseus**, son of the King of Athens, decided to put an end to this and vowed to kill the Minotaur. He came to Crete and found his way through the **Labyrinth**, unwinding a **red thread** as he went, so that he could find his way out. He killed the Minotaur in a violent battle and saved the sacrificed children.



## Marbles on a slope

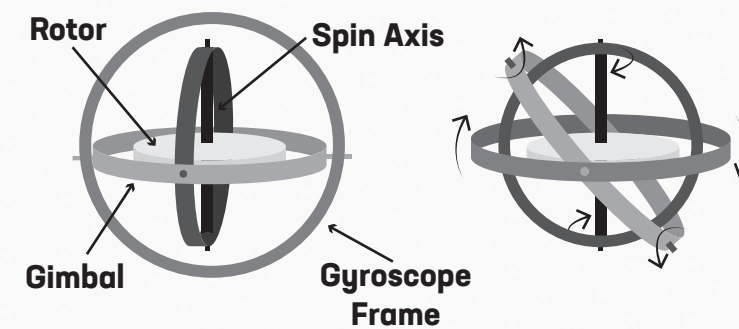
When you use the pull-tabs to tilt the floor and move the marbles around the Labyrinth you can control the **speed** of the marble by changing the angle of the floor.



**Weight** is the force on the marble due to gravity, which always acts straight down. As the slope is angled, part of the downward force acts in the direction of the slope, accelerating the marble.

## Gyroscopes [jahy-ruh-skohp]

The mechanism used to tilt the table in your Marble Labyrinth is very similar to another mechanism called a **Gyroscope**.

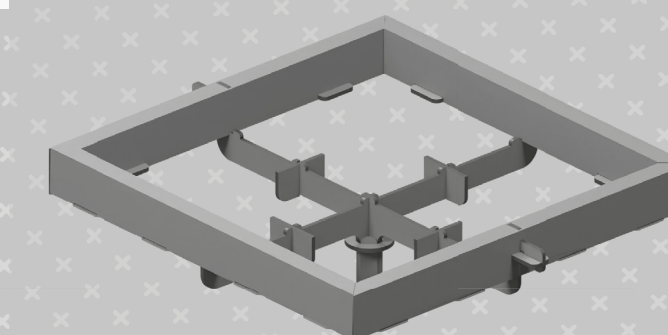
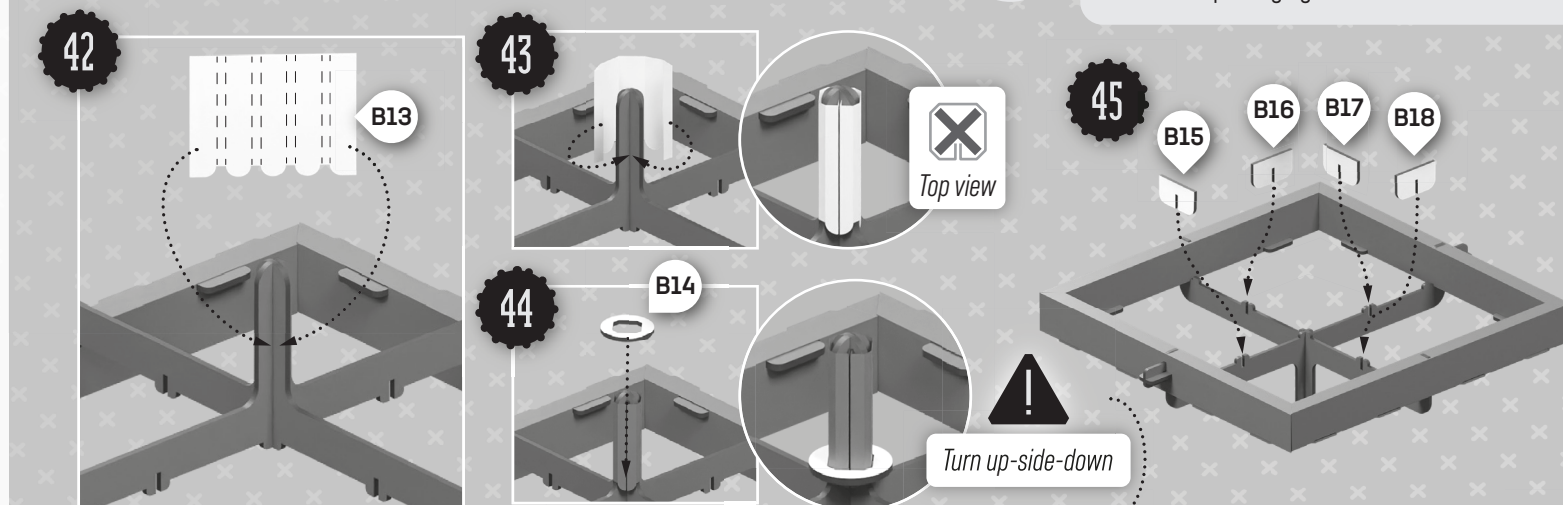


A **Gyroscope** is a device used to maintain orientation and angular velocity. The rotation of the outer rings (**Gimbal**) does not affect the central **Rotor**. As shown above, however the outer rings are rotated, the rotor will always stay **stable**. Gyroscopes are used to stabilise **cameras**, on **compasses** on ships and even electronic versions in **smartphones**.

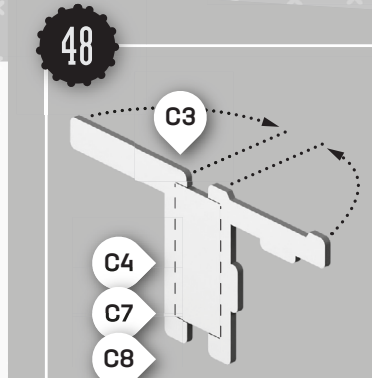
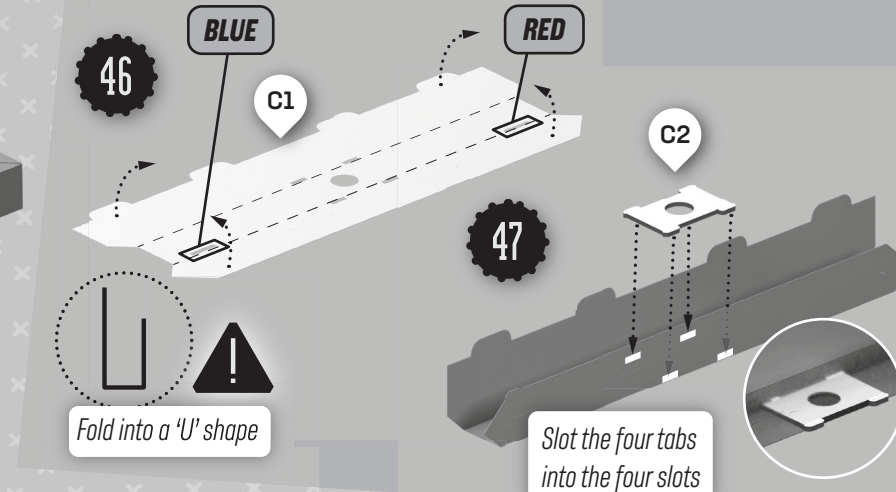
BUILD YOUR OWN

# MARBLE LABYRINTH

## INSTRUCTION BOOKLET 2



**FRAME A** finished.  
Put to one side for **step 58**.



Repeat for parts **C4, C7 & C8**



Repeat **Steps 46-50** for parts **C5 to C8**.

Recommended age 8+  
**WARNING!** Not suitable for children under 3 years. Small parts. Choking Hazard.  
**WARNING!** Choking Hazard. Contains marbles.  
**WARNING!** Do not leave the marble labyrinth unattended, especially with younger children who may not be familiar with the risks mentioned above. Always count and pack up the marbles after use. To be used under adult supervision. Retain this packaging for future reference.



**51** **BLUE** **C9** **GREEN** **C10**

**52**

Make sure this part is the correct way round.

**53**

Fold over the flaps towards each other and push the tabs into the slots.

**54** Turn around

**55** **PURPLE** **C11** **RED** **C12**

**56**

Make sure this part is the correct way round.

**57**

Fold over the flaps towards each other and push the tabs into the slots.

**FRAME B** finished. Put to one side for step 59.

**58** **FRAME A** **O1** x3

**59** **FRAME B**

Insert the pivot into the hole in **FRAME B**.

**60** Gently flex outwards to help fitting.

**61** **O2** x3

**62** **O2** x3

Insert the pivot into the hole in the **LABYRITH BASE**.

Gently flex outwards to help fitting.

**PIVOT** **TAB SLIDERS**

Make sure the **PIVOT** slots into the two holes in the **TAB SLIDERS**.

**63** **C13**

Turn up-side-down

**64** **C14**

**65** Push tabs into slots

**66** **C15** **C16**

**LABYRINTH MECHANISM** finished. Put to one side for step 75.

**67** **F1**

**68** **F2**

**69** **F3**

**70** **F4**

**71** **F5**

**72** **F4**

**73** **F5**

**MARBLE STORAGE BOX** finished.

**74** **E1** **E2**

**75** **D2**

**76** **D3**

**77** **D4**

**78** **D1** **D2** **D3** **D4**

Place the four sections gently into the **LABYRINTH MECHANISM**.

**79** **E2** **E1**

Don't forget to add the last four walls.

**Marble Labyrinth Wall Construction**  
Press out all the **E1** & **E2** parts. These are the walls for the maze. Build one section at a time, starting with **D1**, making sure you have it with the blue side facing up. Then add the long **E1** and short **E2** wall sections into the positions shown.