



How to use these templates

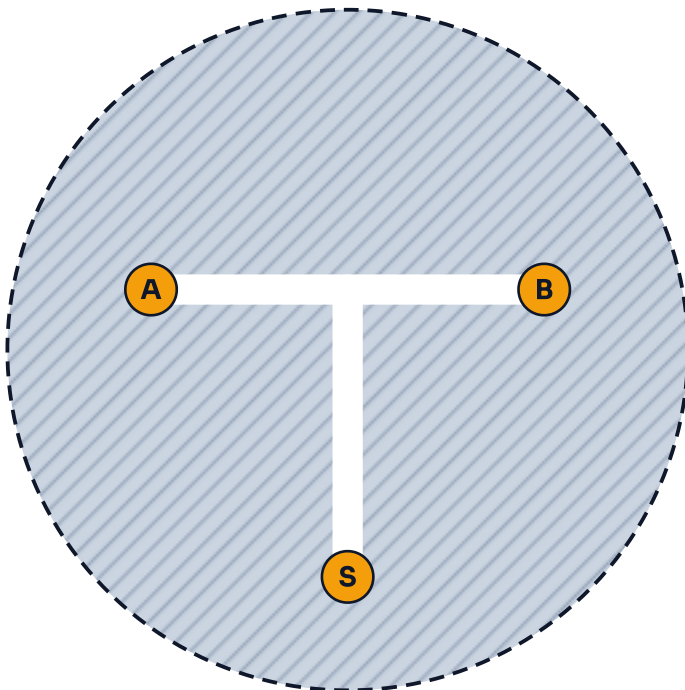
1. Pour a 3 to 4 mm layer of agar into the dish (2 g of agar powder per 100 ml of distilled water, brought to the boil). Let it set with the lid on.
2. Put the closed dish on the template and trace the outlines with a fine marker on the lid or under the base.
3. With a thin blade, remove the agar from every hatched area. Slime mold will not cross bare plastic, so those become your walls.
4. The white corridors are 4 mm wide, the width that works best.

To stay true to Nakagaki's experiment (2000), first fill every corridor with pieces of slime mold, wait 12 hours for them to merge, then place two or three oat flakes on A and on B at the same time. Full instructions at blob-info.com/en/slime-mold-maze/.



Before anything else, check with a ruler that this bar measures exactly **5 cm**. If it does not, print again at "actual size" or "100%", never "fit to page". This sheet is A4: on US Letter paper, check that nothing has been cut off.

Level 1 - The T, for a 9 cm dish



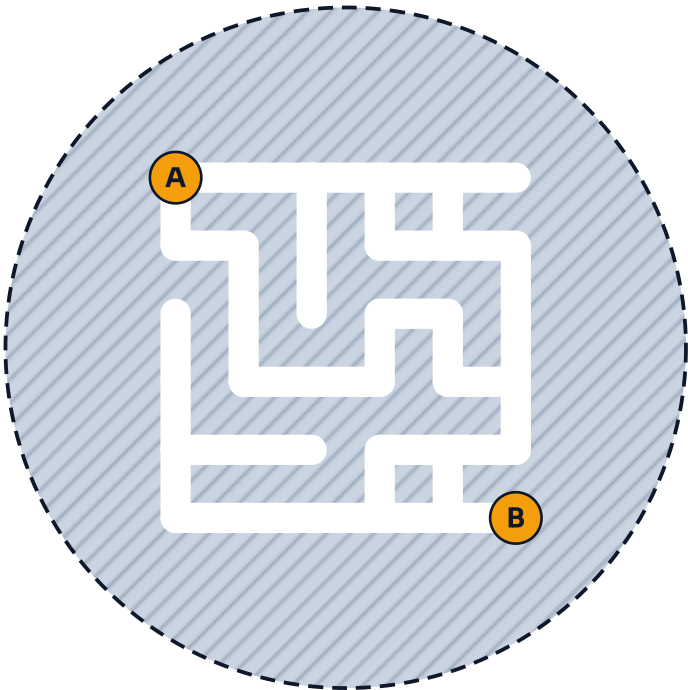
The slime mold starts at S, with two or three oat flakes waiting at A and at B, at the end of each arm. Both arms are exactly the same length.

It often sends strands down both sides, then thickens one arm and gives up the other. With two identical food sources, the choice is down to chance. Put flakes on one side only to check that it finds the food.

Time: 4 to 8 hours at 22-25 °C.



Level 2 · Several routes, for a 9 cm dish



Several routes of different lengths connect A and B, with dead ends branching off everywhere. Fill every corridor, wait for the pieces to merge, then put the flakes on A and B.

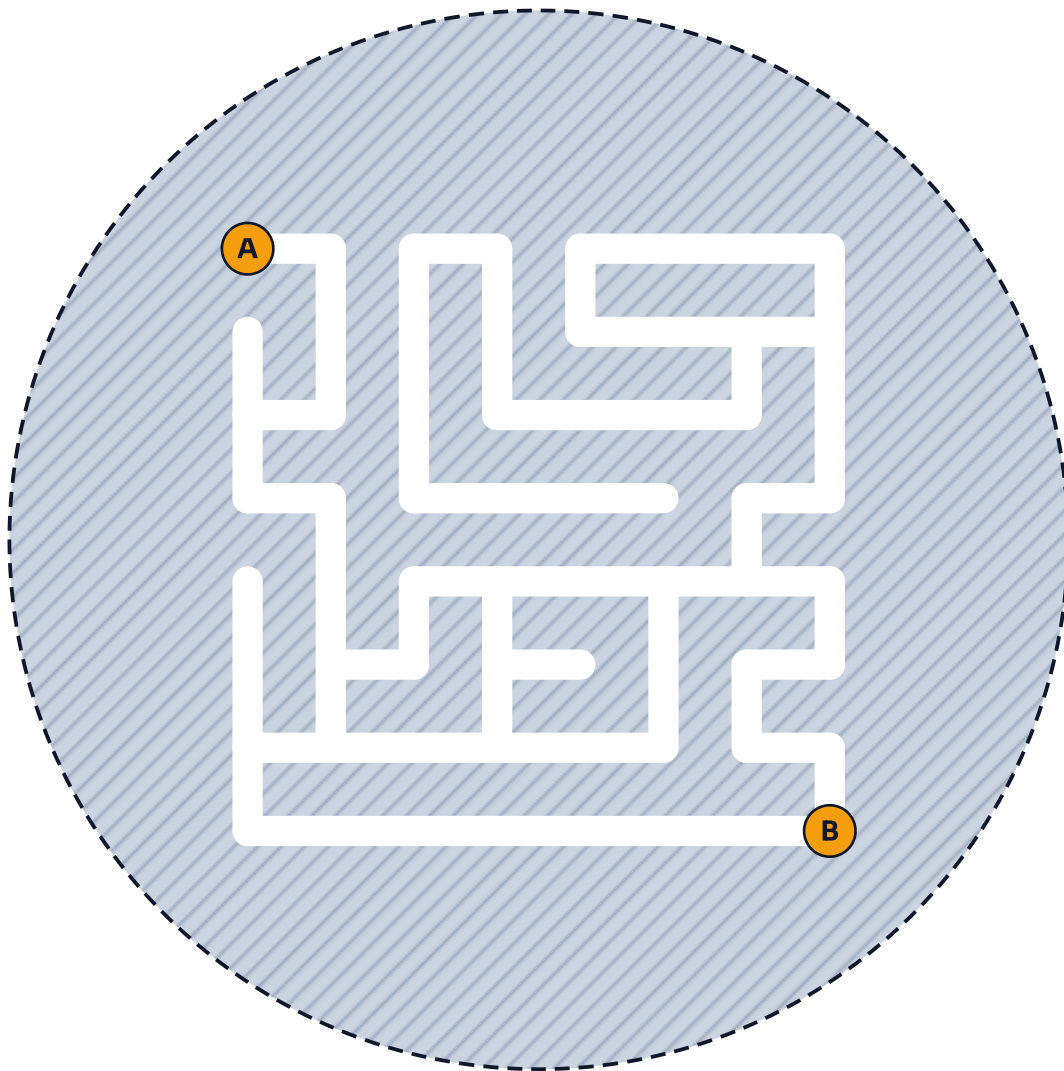
Within 8 to 12 hours at 24 °C, the dead ends empty out and the shortest route thickens. Take a photo every hour, or the result will be impossible to read.

My log

Time	What I see



Level 2 · Several routes, for a 14 cm dish

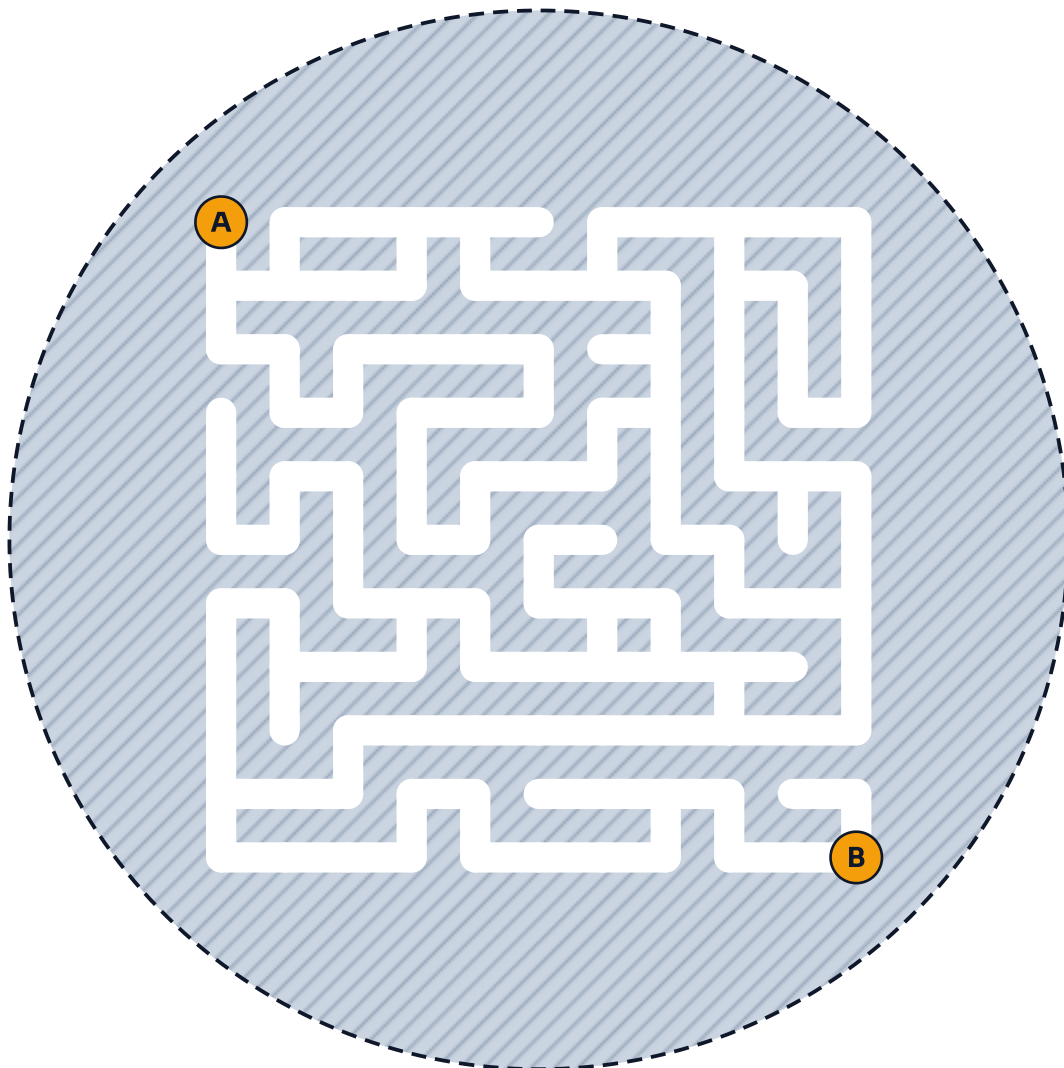


Several routes of different lengths connect A and B, with dead ends branching off everywhere. Fill every corridor, wait for the pieces to merge, then put the flakes on A and B.

Within 8 to 12 hours at 24 °C, the dead ends empty out and the shortest route thickens. Take a photo every hour, or the result will be impossible to read.



Level 3 · The big maze, for a 14 cm dish



Plenty of dead ends and six loops, which means six possible shortcuts. Allow 12 hours or more. At the end, measure the route the slime mold kept with a ruler and compare it with the other possible routes.

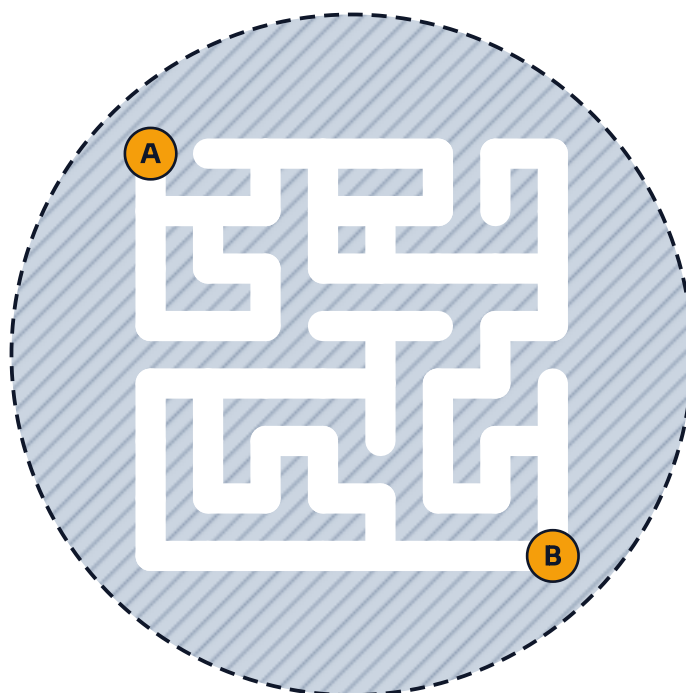


Slime mold maze templates

Actual-size templates to place under the dish

blob-info.com

Level 3 · The tight little maze, for a 9 cm dish



Harder to cut, with walls only 3.6 mm thick. If the agar tears, go back to level 2. A healthy slime mold, fed the day before, gives the clearest results.

What I observed
