



***THE LEGO MARBLE
MAZE RUNNER
CHALLENGE***

DIRECTIONS PART 1 - PLANNING

On a 5x5 paper draw a maze that has a starting point (entrance) and ending point (exit point). You will need to add walls and dead end paths. A challenging maze will be fun to solve.

DIRECTIONS PART 2 - BUILD AND TEST

Using a green lego flat and a variety of 1x Legos, use your paper drawing as a guide to create your maze with Lego's. Remember, you need to include your starting point and ending point along with walls and dead end paths. The maze wall openings should be wide enough for a marble to pass through.

QUESTION: How many Lego Studs wide are needed for a marble to fit through?

DIRECTIONS PART 3 - ITERATIONS

Continue to test and improve your lego marble maze, this is the iterative process.

Questions:

- What did you add to your design to improve it?
- What else could you add to your design improve it?
- How could you make your design more challenging?
- What features could you add to the design to make it more interesting?
- How could we work in teams to create something new, better or different?