



## LEGO MARBLE MAZES

### Materials you need:

- Collection of different sized Lego pieces.
- Marbles
- Lego Base plates
- Paper, pencils and erasers for drawing designs and ideas.

### Setup for play:

All you need to set out for this activity is the Lego and a few base plates then tell the children they are going to use the Lego pieces to create walls and a maze for a marble to roll through. It is entirely up to them the design they come up with but the basic guidelines are that the marble needs to go from one gap through the maze to a gap at the other end. They will need to think about how they can create different pathways as they build.

You might like to watch a couple of videos first for a little inspiration. One is a [simple flat maze](#) and [one is a little harder with levels!](#)



## What are they learning with this activity?

As the children design, build and play with their Lego mazes they are learning to:

- Classify, sort by category and group items together by similarities, patterns and differences
- Use hand/eye coordination skills and increase their spatial awareness
- Manipulate small objects using pincer movements
- Strengthen fine motor muscles, visual motor integration and control
- Manipulate equipment and real-life tools
- Persist even when they find the task difficult
- Work independently on a project
- Listen to and follow directions
- Work together in a group with others
- Engage with technology for fun and to communicate learning
- Challenge their sense of touch and sensory processing
- Express themselves creatively
- Explore simple scientific and math concepts through play and hands on investigation
- Use their play to imagine and explore ideas
- Strategically use concepts of direction (left, right, up, down, forwards, backwards)
- Problem solve and make decisions to meet their needs

## Extending the play:

- Introduce grid paper and encourage the children to draw a few different designs – which one worked better? Why?
- Prop the base plate up vertically (on a slight lean backwards) and use the Lego pieces to make a marble run so the ball runs from top down to the bottom.