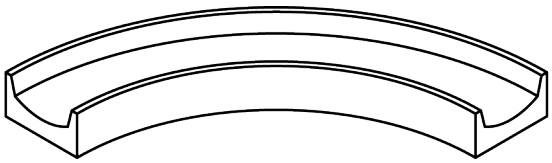
Design and Make

Marble Run

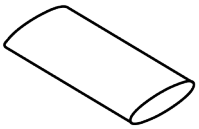
Marble Run

How it works:

Design and Make

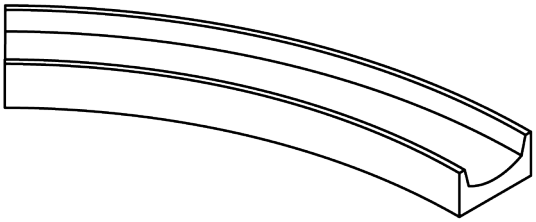


x 6

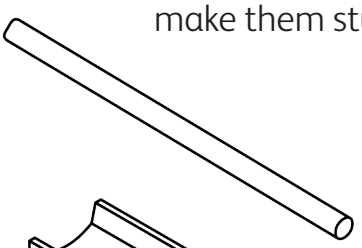


x 50

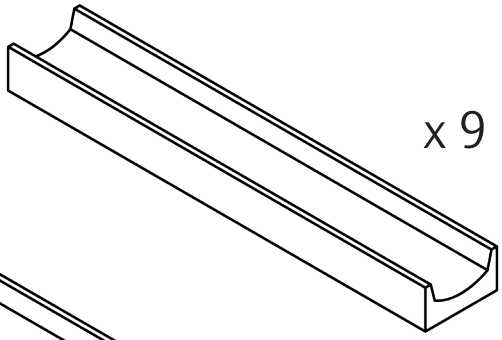
Dominos insert into tracks to make them sturdy.



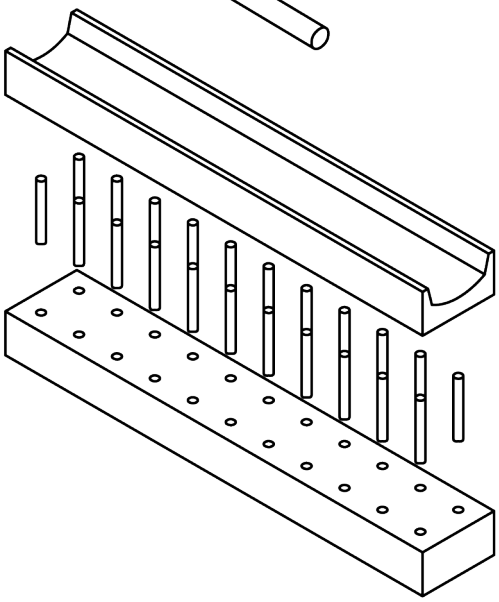
x 12



x 50



x 9



x 9

x 3

Holes on the tracks line up with the Blocks that can be used as supports, alternatively tracks can be used on their own on chairs.

Curriculum Links

Design and Make

Year 3/4

DESIGN AND TECHNOLOGY

- ACTDEK013 Investigate the suitability of materials, systems, components, tools and equipment for a range of purposes
- ACTDEK011 Investigate how forces and the properties of materials affect the behaviour of a product or system
- ACTDEP018 Plan a sequence of production steps when making design solutions, both individually and collaboratively

SCIENCE

- ACSSU076 Forces can be exerted by one object onto another by direct contact or from a distance

Year 5/6

DESIGN AND TECHNOLOGY

- ACTDEP028 Develop project plans that include consideration of resources when making designed solutions individually and collaboratively
- ACTDEK023 Investigate characteristics and properties of a range of materials, systems, components, tools and equipment and evaluate the impact of their us

HUMANITIES AND SOCIAL SCIENCE (HASS)

- ACHASSI102 Work in groups to generate responses to issues and challenges

Suggested Activities

Design and Make

Marble Run

Materials:

- Kit contents

Task:

- Students take the challenge to build a successful marble run in an allotted time. To conduct a successful Marble Run session the activity must establish four things: A starting point, an end location, an obstacle and a time limit.

Starting Point:

The starting point is encouraged to be on a high location to help the ball fall down the tracks.

End Location:

The end location should be a far away enough to use a sufficient amount of tracks.

Obstacle:

The level of difficulty of the activity can be modified depending on the obstacle introduced. A suggested obstacle could be to run tracks around a chair, under a table or even both. This is to prevent tracks from being straight from start to end.