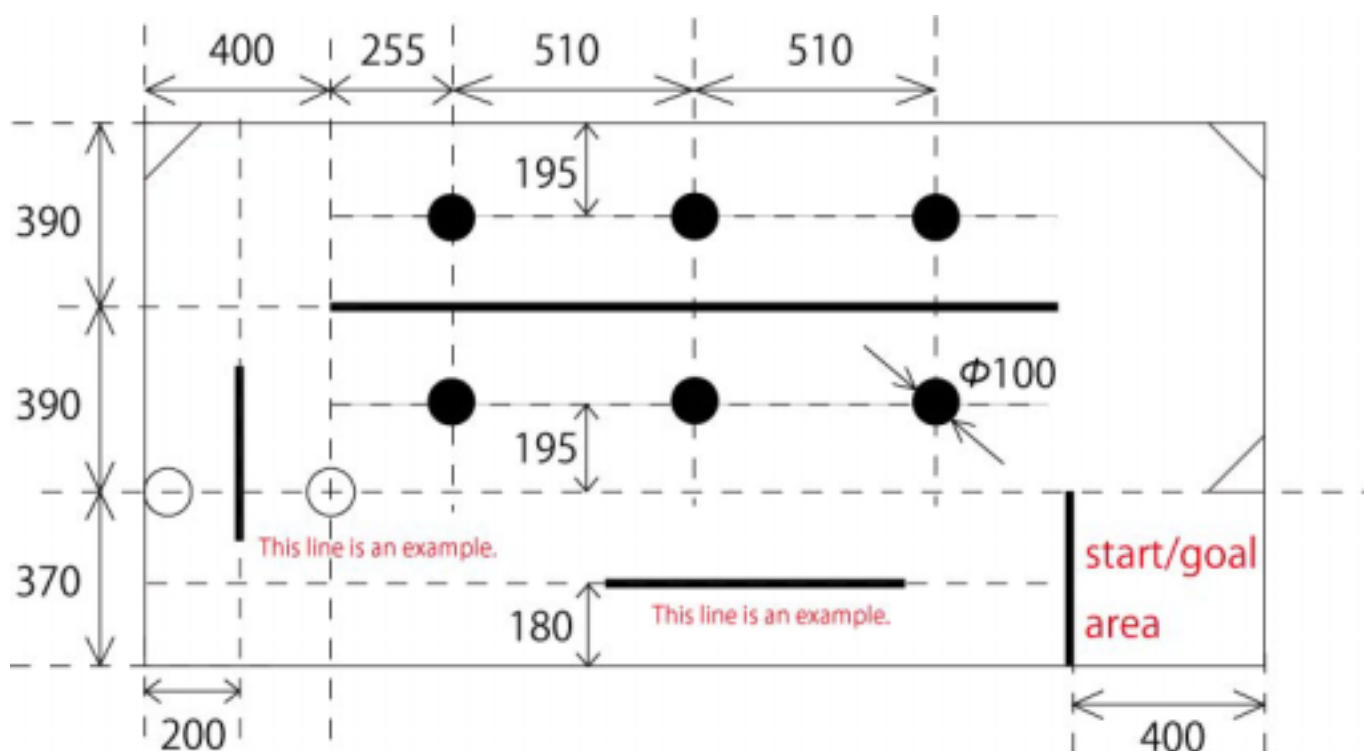
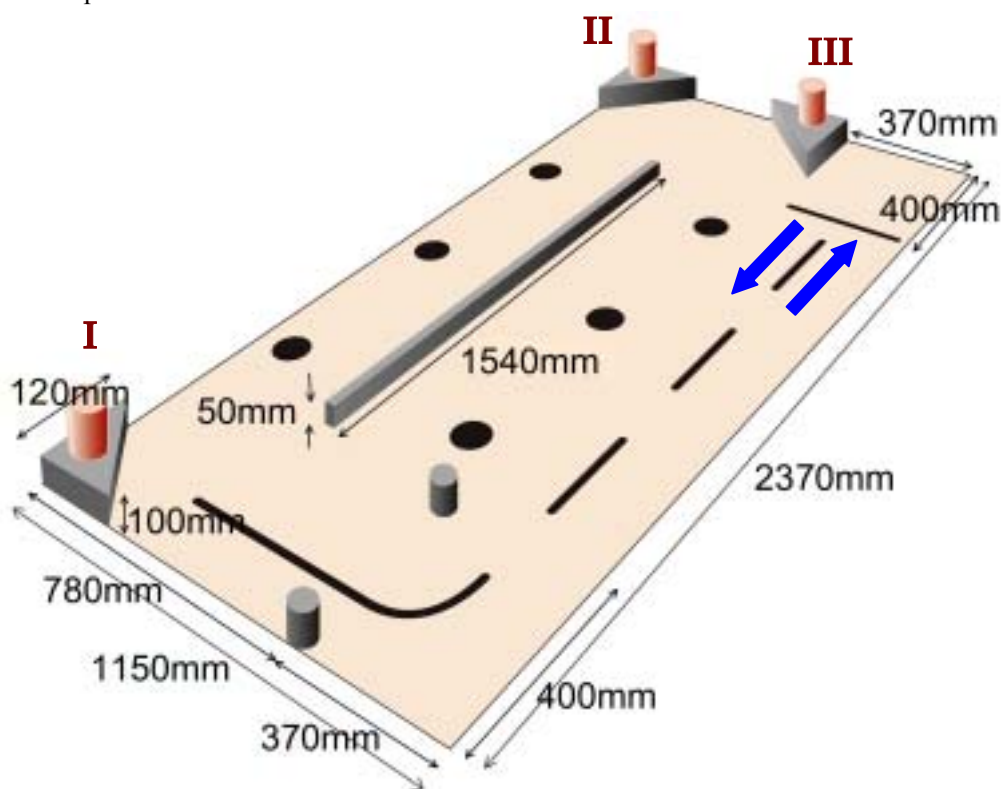


Base Runner (elementary school category)

Robot knocks the target objects off of raised triangle prisms, set at the corners of the fields, and then returns to the starting area.

1. Court:

There will be some surprise rules.



- 1) The court will be 2370mm long, 1150mm wide (The court will be white). The black line will be 18mm wide. The circle diameter size will be 100mm.
- 2) The start and finish area will be 400mm long and 370mm wide.
- 3) The wall will be 1540mm long, 18mm wide, and 50mm high. The triangular prism will be 120mm long, 120mm wide, and 100mm high.
- 4) There are 2 poles that make a gate. The diameter of poles is the same size of a can.
- 5) The objects (triangular prisms, wall, and poles) will be fixed on the court.
- 6) The targets will be cans. The maximum weight will be 345g. The weight of a can will be announced on the morning of November 1st.

2. Rules:

- 1) Each match will last for 2 minutes (=120seconds).
- 2) Robots must start from the start area. Any part of the robot is not allowed to exceed the start area before it starts.
- 3) Robot will start from the start area, going through the gate and challenge each target points, and finally it must return to the goal area (= start area) by going through the gate again.
- 4) The sequences of tumbling are decided; I→II→III

Scores will be changed according to the sequences of tumbling. Scores are the following.

- 30 points
- 20 points
- 20 points
- 10 points
- 10 points
- 10 points

5) Definition

1. Going through the gate: All parts of the robot finish going through the gate.
2. Tumbling: Robot must knock over and fall down the object from the top of triangle prisms.

3. Scoring:

There will be “mission points” and “time points”.

1) Mission points

1. Going through the gate 10 points (only first time)
2. Tumbling the target in the defined order (3 targets).....10 points * 3

2) Time points

When the robot returns to the starting/goal area, time points are obtained.

Robot will get 0 time points if it returns to the goal area without going through the gate.

$$\text{Time points} = 120 \text{ (seconds)} - \text{mission time}$$

If the robot is unable to finish the match, or time runs out, then it will get the mission points which it has attained at that point.