

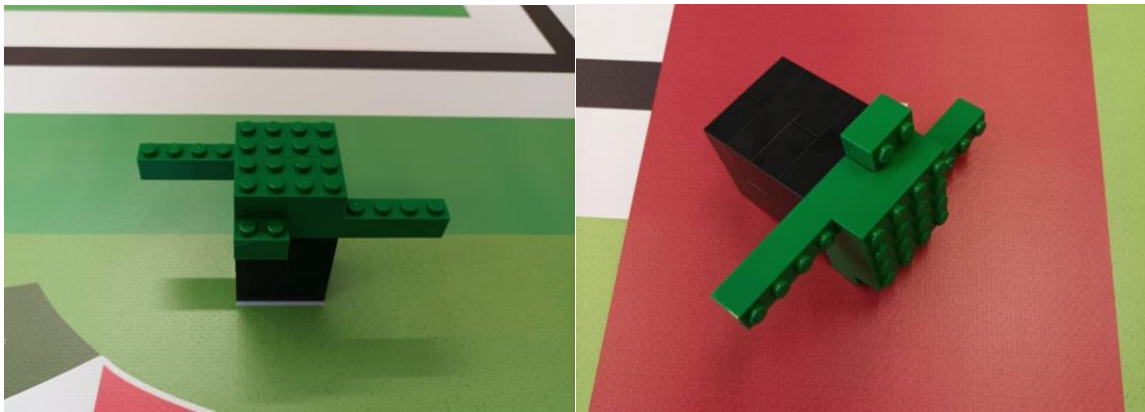
WRO 2022 FRIENDSHIP INVITATIONAL

RoboMission Elementary Extra Challenge

Robot starts from the same start / finish area as in the base challenge.

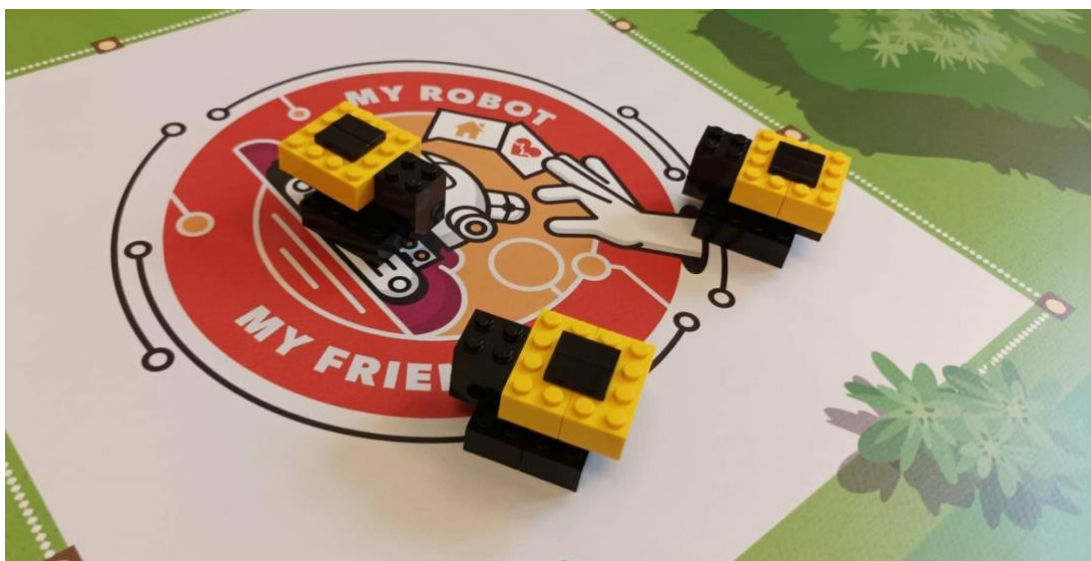
1. A tree dried out

There is a tree in the garden that unfortunately dried out. It will be processed later but until then you have to take it to collection point 2. Starting position is on gray area no. 2. To get full points the base of the tree can only touch collection area no. 1, partial points are awarded if it touches the collection point 2 area and the area outside of it as well. The tree can be in a standing or lying position.



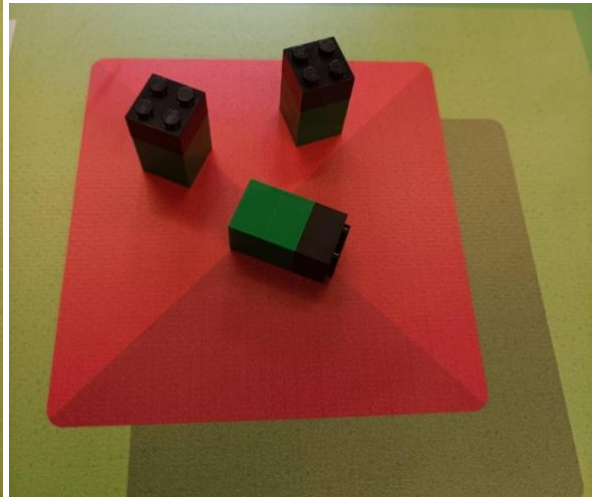
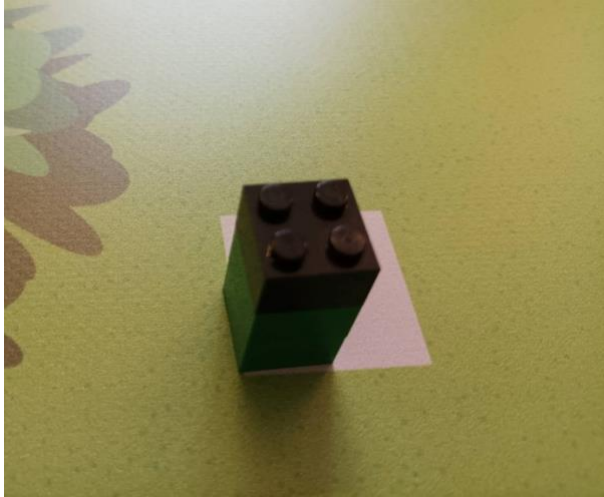
2. Not native ladybugs appeared

Some yellow ladybugs started to invade the garden and these ladybugs are not native here, but are forcing out native ladybugs. We want to relocate the yellow ladybugs so you have to collect them standing up completely inside the white area with the 'My robot, my friend' logo. Starting positions of the three yellow ladybugs are on the yellow square areas and ladybugs area facing towards the left.



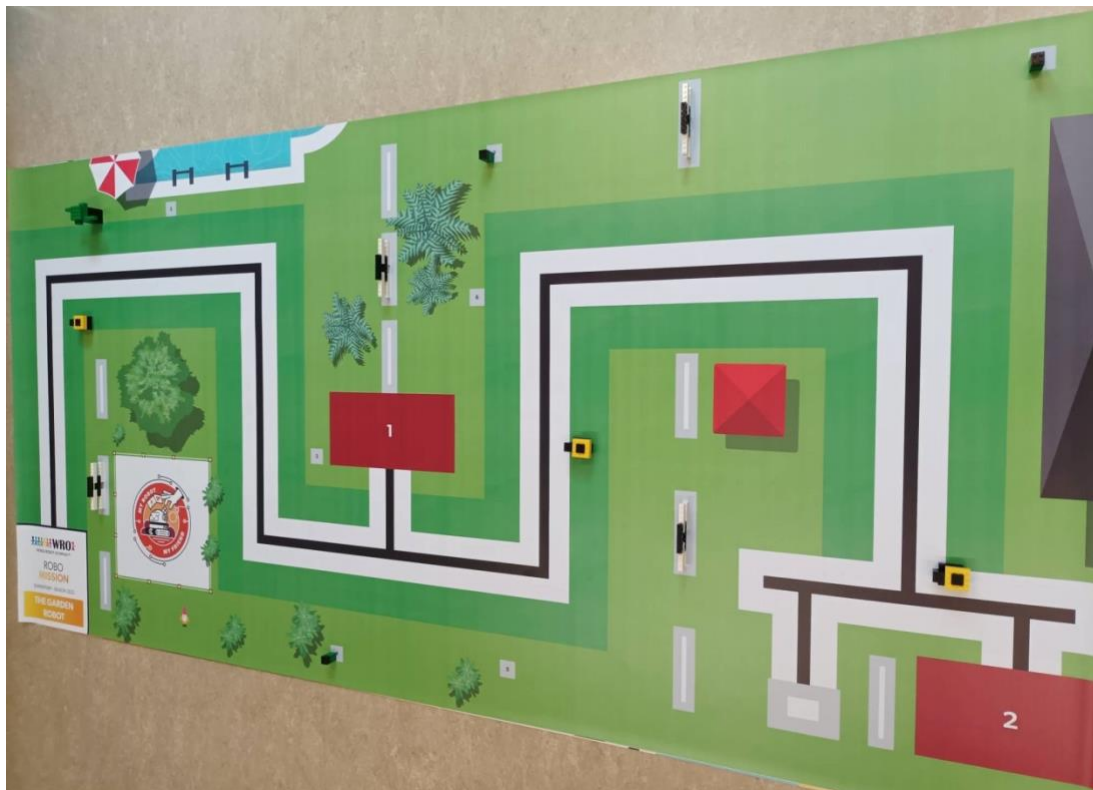
3. Toys left in the garden

Earlier the children were playing in the garden and left some toys here and there. You should collect the toys and take them to the house. Starting position of the toys are in the left lower corner of grey areas 4, 7 and 8. Toys have to be completely inside the red area of the house but it does not matter if they stand or lie.



4. Bonus points

Altogether four fences will be placed on the game field. One is placed on each middle fence area and one on the fence area between grey areas 7 and 8. Points are awarded if the fence stays completely within the grey and white area and are not damaged.



Scoring Sheet – WRO 2022 RoboMission

Elementary Extra Challenge

Team name: _____

Round: _____

Task	Points	Score
Dried out tree: tree is not damaged and is completely inside the collection point 2 area.	25	
Dried out tree: tree is not damaged and is partly inside the collection point 2 area.	10	
Not native ladybug is not damaged and is completely inside the white area with 'My robot, my friend' logo.	20 / ladybug (max. 60)	
Not native ladybug is not damaged and is partly inside the white area with 'My robot, my friend' logo.	5 / ladybug (max .15)	
Toys in the garden: toy is not damaged and is completely inside the red house area.	15 / toy (max .45)	
Bonus point: fence is not damaged and is completely inside the starting grey and white area.	5 / fence (max. 20)	
Final score (150)		
Time (in full seconds)		

team member signature

judge signature