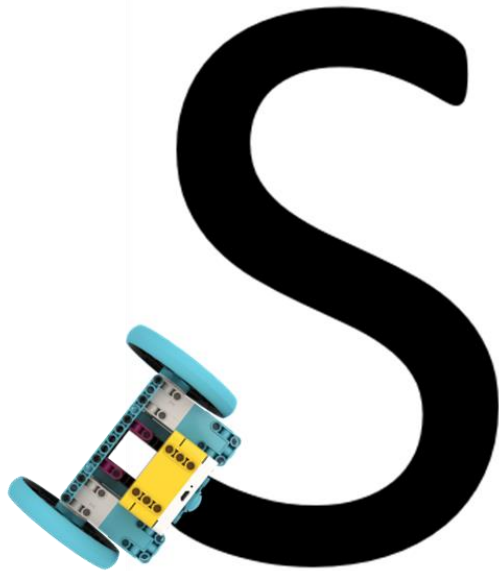


CENTRE FOR ROBOTICS LEARNING – LEGO SPIKE PRIME SUMMER CAMP OUTLINE

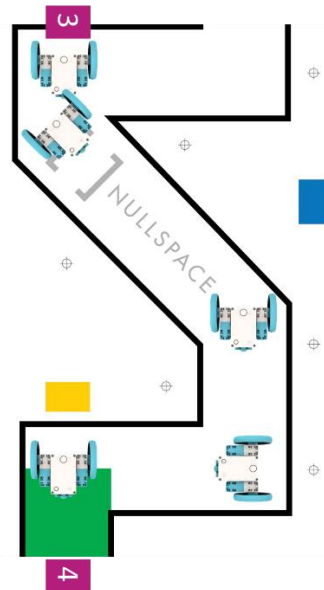
Camp levels are progressive; students must complete and pass hands-on assessment test before proceeding to the next level.

Beginner Camp Programme Outline

Time	Monday	Tuesday	Wednesday	Thursday	Friday
1445 - 1500	Check In & Registration				
1500 - 1600 (1 hour)	Introduction to LEGO Mindstorms EV3 + Building my first robot!	Recap + Robot Construction + Port View Function	Recap + Robot Construction Understanding the Ultrasonic Sensor	Recap + Robot Construction Understanding the Touch Sensor	Search & Rescue Mission Briefing
1600 - 1700 (1 hour)	5 types of robotic manoeuvability	Mission: Maze Runner	Mission: Vacuum Cleaner Robot	Mission: Bumper Car Robot	Attempting Search & Rescue Mission
1700 - 1715	Break Time				
1715 - 1815 (1 hour)	Computational Thinking Process: Flow Charting	Computational Thinking Process: If-Else Switches	Understanding the Colour Sensor + 1 Sensor Line Navigation Technique	Computational Thinking Process: Nested If-Else Switches	Robotics Certificate Assessment: Beginner Level
1815 - 1900 (45 mins)	Mission: Shapeshifter	Mission: Podracer	Mission: Sprint Race	Mission: Dual Touch Sensors Remote Control Robot	Assessment Review + Certificate Presentation
1900 - 1915	Dismissal				

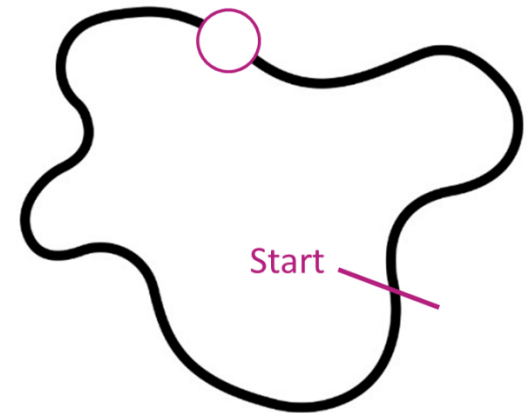


Day 1 – Robot Movement Paths

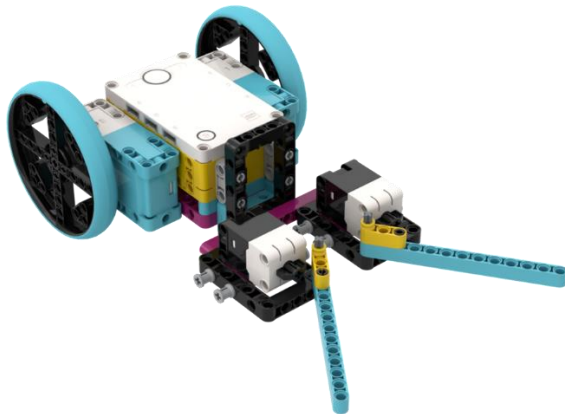


Day 2 – Maze Runner

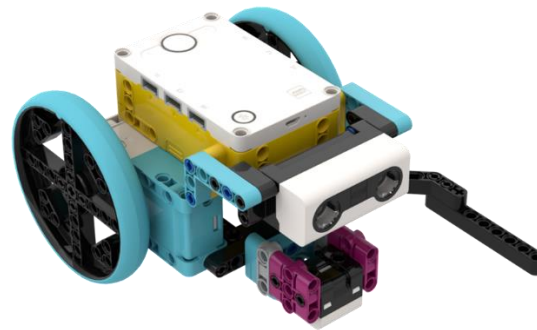
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Day 3 – Sprint Race



Day 4 – Bumper Car Robot



Day 5 – Search and Rescue Mission