

Rosemarie's Robotics Classes

The robotics classes for 2018 will be starting on Wednesday January 31st. The cost for the classes is \$10 per class, per child.

Children will learn about robotics, programming, engineering, design and problem solving in small teams. The schedule below covers the lesson dates for terms 1 and 2.

One of the key points of these lessons is teamwork and learning to collaborate with others.

There are 3 levels, as detailed below:

6 – 10 year old beginner class

This is a beginners class for young children and children who do not have much experience with Lego, Robotics or computers. We will be using the WeDo 2.0 Lego Robotic kit. The class size is limited to 6 children.

This will be held between 11am and 12pm

9 – 16 year old beginner class

The class will be using the NXT Robotic kits. We cover a variety of topics to give a good grounding in Lego Robotics and what is possible with robots. This class is for children who are a bit older and have a little experience with Lego robotics and who those who are not confident yet. The class size is limited to 12 children.

This will be held between 1pm and 2pm

9 – 16 year old advanced class

This class is for children who have had experience with NXT or EV3 robots before and who know the basics of how to make the robot do simple tasks. This class will use the EV3 Robotic kits. The class size is limited to 12 children.

This will be held between 2:30pm and 3.30pm

Classes are all held at my house in Narre Warren.

For more information or to register your interest, please feel free to contact me.

Rosemarie

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Rosemarie's Robotics Classes 2018			
Term 1	Junior – 6 – 10 years	Beginners 9 – 16 years	Advanced 9 – 16 years with experience
31/01/18	Milo Science Rover	Welcome to NXT	Welcome to EV3
07/02/18	Motion Sensor	Basic Programs	Sequential Programs
14/02/18	Tilt sensor	Sequential Programs	Touch Sensor & Maze Solving
21/02/18	Collaboration Robot	Building Good Structures	Navigation & Control
07/03/18	Pulling	Accuracy & Repeat-ability	Colour Sensors & Black Line Follower
14/03/18	Speed	Turning & Distance Navigation	Decision Making –Smart Robots
21/03/18	Strong Structures	Loops	Mechanisms
28/03/18	Drop and Rescue	Black Line Follower	Powering Mechanisms
Term 2	Junior – 6 – 10 years	Beginners 9 – 16 years	Advanced 9 – 16 years with experience
18/04/18	Prevent Flooding	Gears	Ultrasonic Sensors
25/04/18	Sort and Recycle	Basic mechanics	Programming Using Incoming Data
02/05/18	Simple Mechanisms Part 1	Mechanisms	Gyro Sensors
09/05/18	Simple Mechanisms Part 2	Powering Mechanisms	Strategy & Logic
23/05/18	Gears Part 1	Solving Challenges	Gearing for Power
30/05/18	Gears Part 2	Multiple Program Chains	Putting it together - Challenge Solving
06/06/18	Sequential Programs	Solving Challenges Part 2	Putting it together - Challenge Solving
13/06/18	Challenge day	Designing Robots For Functionality	Designing Robots For Functionality