



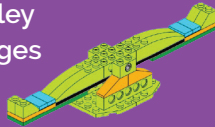
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BRAINOBOTS

JUNIOR ROBOTICS PROGRAMME

1) SIMPLE MACHINE

- 🤖 Shapes, Pattern & Part Identification
- 🤖 Gears & Transmission
- 🤖 Wheel & Axle
- 🤖 Fixed and Movable Pulley
- 🤖 Inclined Planes & Wedges
- 🤖 Weight and Balance
- 🤖 Rack & Pinion
- 🤖 Level (class 1, class 2, class 3)



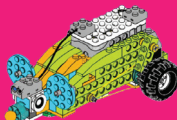
3) MOTORIZED MACHINE

- 🤖 Electric Motor & It's Working
- 🤖 Torque vs Power & RPM
- 🤖 Motor with Gears, Pully & Bell (sweeper, pterosaur, oil extractor)
- 🤖 Wheel Drive- Forward & Backward (tank, electric car, crawler excavator)
- 🤖 Gear Drive vs Belt Drive
- 🤖 Motor Propeller (electric helicopter)



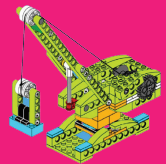
5) ROBOT PROGRAMMING

- 🤖 Graphical (or) Visual Programming
- 🤖 Sensor Interface (light sensor, IR sensor)
- 🤖 Machine Automation (colour sorting machine, automatic gate)
- 🤖 Logical Programming
- 🤖 Sensor Guided Robot Car
- 🤖 Animal & Pet Robot (dog, cat, mouse, crocodile & tyrannosarus)



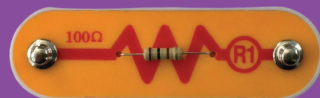
2) COMPOUND MACHINE

- 🤖 Motion & Movements
- 🤖 Motion & Balance
- 🤖 Action & Reaction
- 🤖 Force & Friction
- 🤖 Motion & Force
- 🤖 Inertia & Balance
- 🤖 Motion & Fulcrum



4) SNAP CIRCUIT

- 🤖 Electronic Circuit & Component Testing
- 🤖 Voltage, Current & Resistor
- 🤖 Control Circuits & It's Applications
- 🤖 Intergrated Circuits & Logic Gates
- 🤖 Input Interface (switch, laser)
- 🤖 Ouput Interface (led, buzzer)
- 🤖 Sensor Interface (microphone, light)
- 🔊 sound activated switch, laser activated sounds, led blink & explore sound IC



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