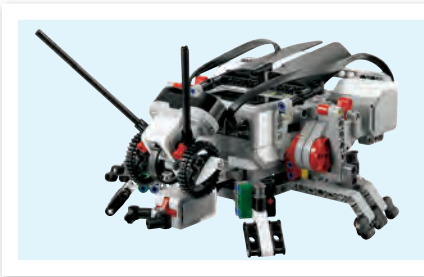


DESIGN ENGINEERING PROJECTS

- Downloaded and integrates into EV3 software
- 15 projects implementing the design engineering process
- Extensive teacher's notes
- Student digital workbooks

LEGO® Education supports innovative teaching of CODING and STEM with freely available software and curriculum to download.
www.legoeducation.com/downloads

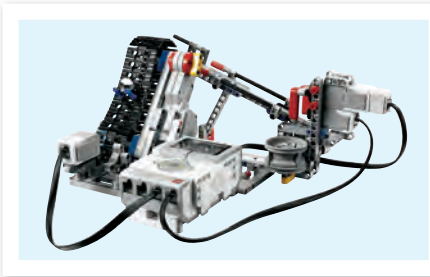
Make it move



Make it smarter



Make a system



SCIENCE CURRICULUM

- Downloaded and integrates into the EV3 software
- 14 experiments in Physical Sciences using data logging



Renewable Energy



Thermal Physics



Light



Forces & Motion

Requires: 9749 – Temperature Sensors Cost: \$60.00 (ex-GST) 9688 – Renewable Energy Set Cost: \$220.00 (ex-GST)

CODING CURRICULUM

- Downloaded PDF document
- Fully linked to ACARA
- Real world programming involving text-based coding
- Student record sheets, teacher's notes
- Programming examples and solutions



ACCESSORIES



45500 EV3 Intelligent Brick
Cost: \$350.00 (ex-GST)



45501 Rechargeable DC Battery
Cost: \$135.00 (ex-GST)



45502 Large Servo Motor
Cost: \$50.00 (ex-GST)



45514 - EV3 Cable Pack
Cost: \$25.00 (ex-GST)
7-piece Cable Pack.



45503 Medium Servo Motor
Cost: \$40.00 (ex-GST)



45504 Ultra Sonic Sensor
Cost: \$50.00 (ex-GST)



45505 Gyro Sensor
Cost: \$50.00 (ex-GST)



45506 Colour Sensor
Cost: \$50.00 (ex-GST)



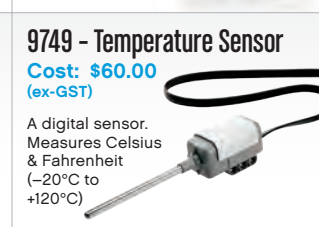
45507 Touch Sensor
Cost: \$35.00 (ex-GST)



45508 IR Beacon
Cost: \$50.00 (ex-GST)



45509 IR Seeker
Cost: \$55.00 (ex-GST)

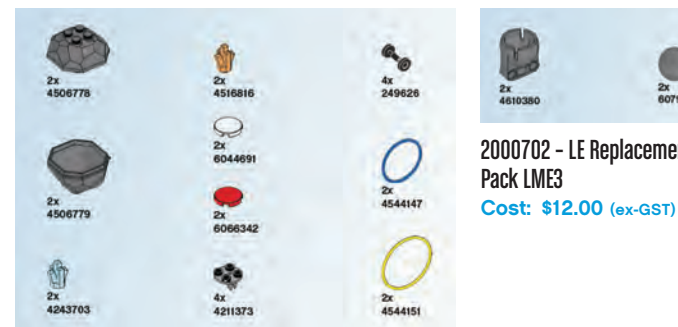


9749 - Temperature Sensor
Cost: \$60.00 (ex-GST)
A digital sensor. Measures Celsius & Fahrenheit (-20°C to +120°C)



2000700 - LE Replacement Pack LME1

Cost: \$12.00 (ex-GST)



2000704 - LE Replacement Pack LME5

Cost: \$12.00 (ex-GST)

2000702 - LE Replacement Pack LME3

Cost: \$12.00 (ex-GST)



2000705 - LE Replacement Pack LME6

Cost: \$12.00 (ex-GST)



2000701 - LE Replacement Pack LME2

Cost: \$12.00 (ex-GST)



2000706 - LE Replacement Pack LME7

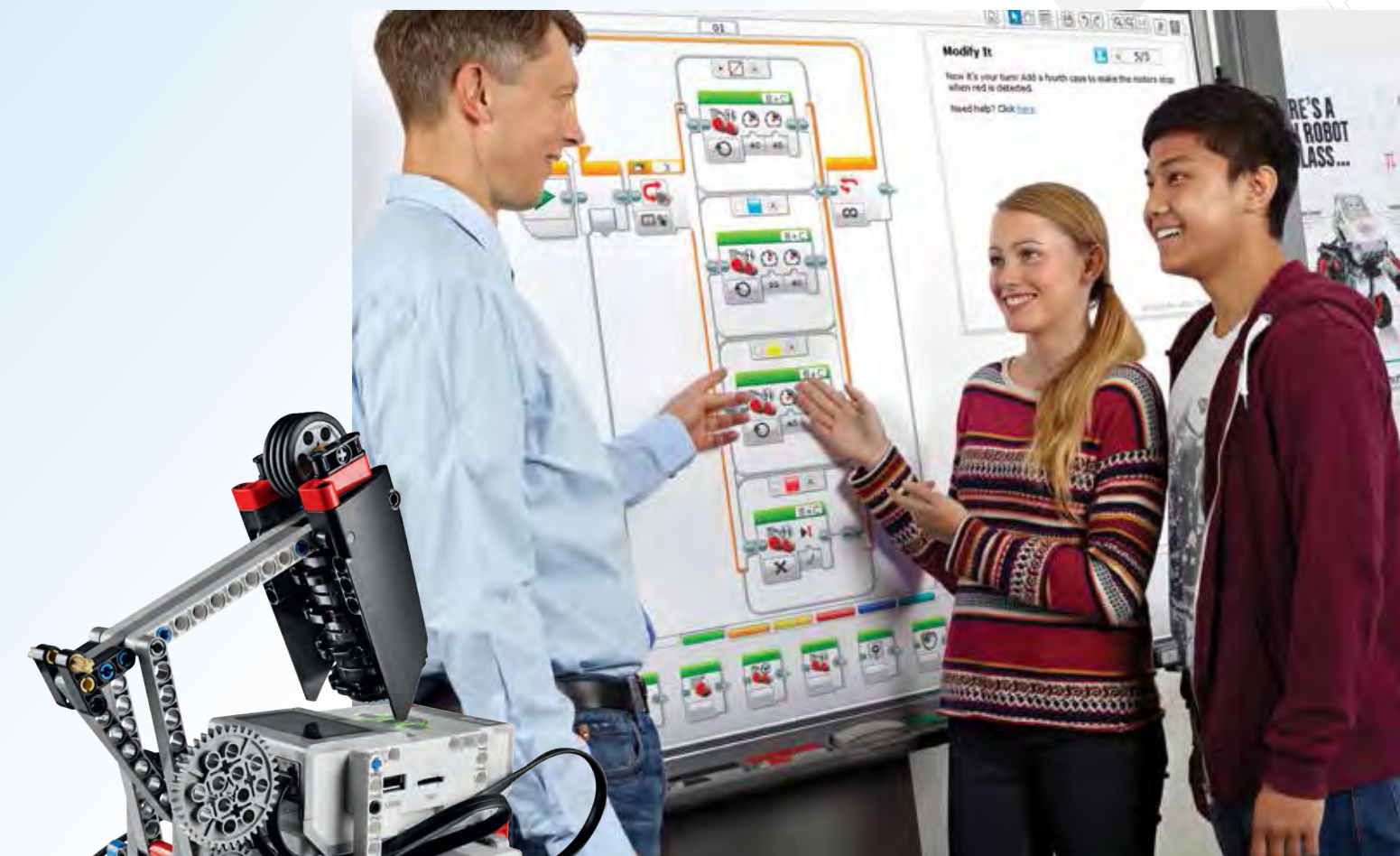
Cost: \$12.00 (ex-GST)



2018

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CODING and STEM



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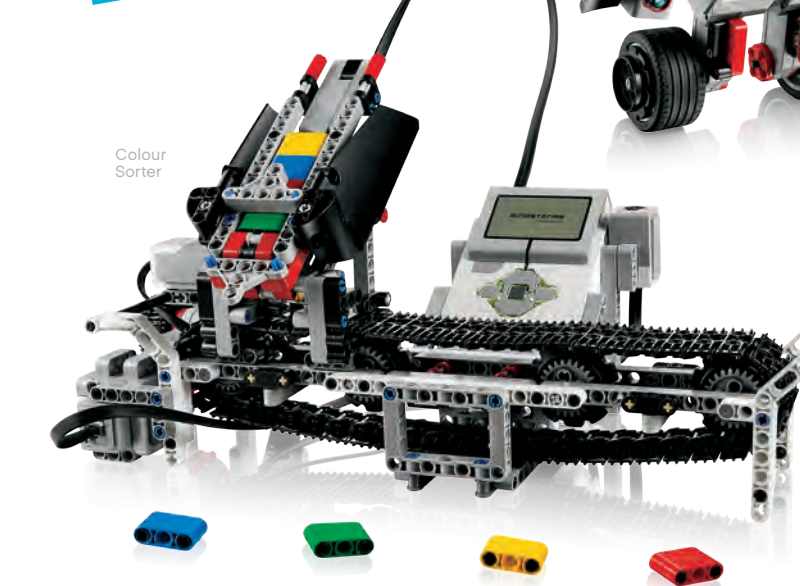
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MAKE CODING A REALITY

LEGO Mindstorms Education EV3 empowers students to succeed at STEM & coding by combining the creativity of LEGO bricks, powerful software and engaging real world challenges.



45544 LEGO® MINDSTORMS® Education EV3 Core Set, Software and Curriculum

Cost: \$650.00 (ex-GST)

This set now contains a full solution that includes the download of the core EV3 software and all teaching curriculum to implement an effective STEM program. EV3 eLearning videos are also available to ensure teachers have access to training.

541 elements are contained in a storage box and includes:

- Intelligent brick to control motors and collect sensor feedback
- 1 x medium and 2 x large servo motors
- 1 x colour sensor
- 1 x ultra sonic sensor
- 1 x gyro sensor
- 2 x touch sensors
- Rechargeable battery
- RJ12 connector cables

Build five engaging models:

- Gyroboy
- Colour Sorter
- Robot Arm
- Edubot
- Puppy

Requires:

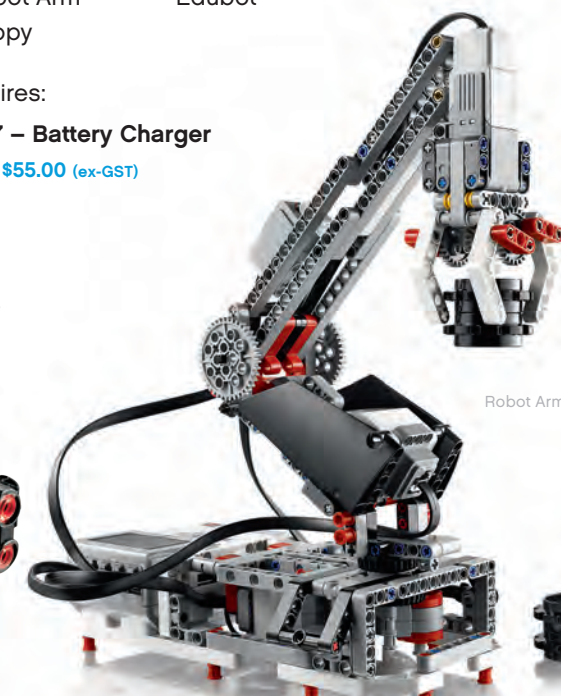
45517 – Battery Charger

Cost: \$55.00 (ex-GST)

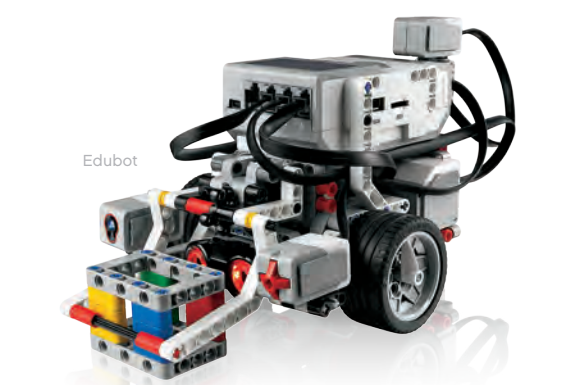
Gyroboy



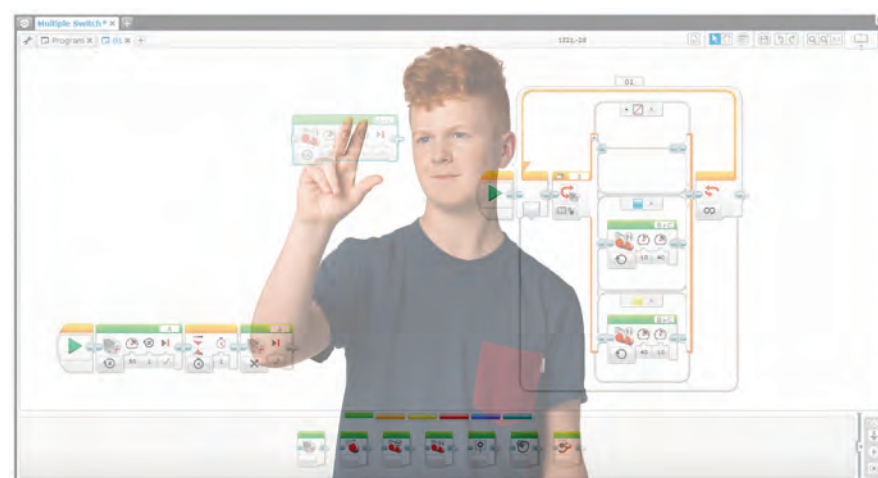
Robot Arm



Edubot



LEGO MINDSTORMS education EV3



Easy to use software

- Optimised for classroom use
- From simple drag and drop programming to complex algorithms

45 Step-by-Step Tutorials included in core software

- **Software Introduction**
 - Basic programming (1 hour)
 - Data wires
 - Data logging
- **Hardware Introduction**
 - Sound, light display (4 hours)
 - Motors, sensors
 - On brick programming
- **Basics (5 hours)**
 - Turns, angles
 - Avoid objects
 - Follow a line
- **Tools (5 hours)**
 - Sound editor
 - Image editor
 - Remote control
 - My blocks
- **Advanced (12 hours)**
 - Loop / Switch
 - Maths / Trigonometry
 - Variable / Arrays
 - Logic / Calibration
 - Sending messages
- **Graphing (5 hours)**
 - Data logging
 - Prediction / Analysis
 - Data set calculations
 - Graph programming

Tutorial flow



1. Understand the objective



3. Test it



2. Build and program your robot



4. Modify it

WHAT TO BUY

EV3 Starter Pack

EV2 for 2 students

- 45544 EV3 Core Set
- 45517 Charger

Cost: \$680.00 ex-GST

EV3 Class Packs

EV38 for 8 students

- 4 x 45544 EV3 Core Sets
- 2 x 45517 Chargers
- 1 x Bonus PD Voucher

Cost: \$2,510.00 ex-GST
SAVE: \$300.00

EV310 for 10 students

- 5 x 45544 EV3 Core Sets
- 3 x 45517 Chargers
- 1 x Bonus PD Vouchers

Cost: \$3,165.00 ex-GST
SAVE: \$350.00

EV312 for 12 students

- 6 x 45544 EV3 Core Sets
- 3 x 45517 Chargers
- 2 x Bonus PD Vouchers

Cost: \$3,705.00 ex-GST
SAVE: \$560.00

EV316 for 16 students

- 8 x 45544 EV3 Core Sets
- 4 x 45517 Chargers
- 3 x Bonus PD Vouchers

Cost: \$4,860.00 ex-GST
SAVE: \$860.00

EV320 for 20 students

- 10 x 45544 EV3 Core Sets
- 5 x 45517 Chargers
- 4 x Bonus PD Vouchers

Cost: \$5,975.00 ex-GST
SAVE: \$1,200.00

Program with the tablet app

The EV3 Programming app is a simple and effective way of getting started with LEGO MINDSTORMS Education EV3 using the intuitive icon-based programming environment (data logging not available). iPad, Android & Chrome book compatible.



SPACE CHALLENGE

45570 LEGO® MINDSTORMS® Education EV3 Space Challenge Set and Curriculum

Cost: \$350.00 (ex-GST)

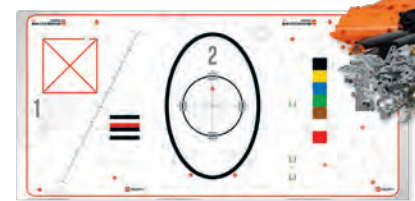
Teach CODING and STEM concepts around the theme of a mission to Mars using your EV3 robots with this set and curriculum.

Includes 3 x training mats, 1 x space mat, LEGO® Bricks. Requires 45544 sets.

Space Challenge Curriculum (downloaded)

Includes:

- 9 Learning Missions encouraging investigation, observation and calculation.
- 7 Challenge Missions to design robots to solve real world space challenges.
- Research Projects to ignite curiosity of space exploration (Robots not included.)

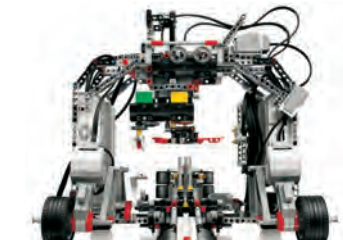


45560 LEGO® MINDSTORMS® Education EV3 Expansion Set

Cost: \$175.00 (ex-GST)

853 elements to create six more complex robots. Building plans in EV3 core software.

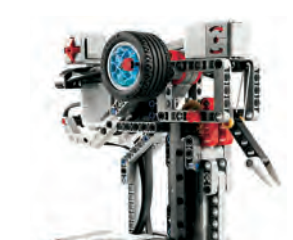
- Elephant
- Stair Climber
- Tankbot
- Remote Control
- Spinning Line
- Znap



Spinning Line (2 x 45544)



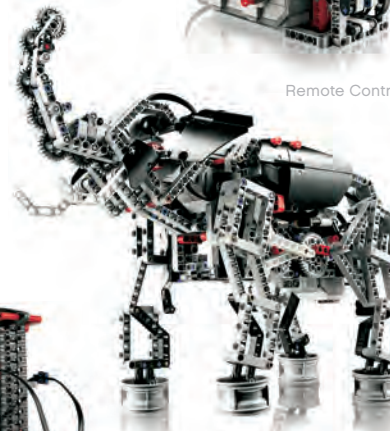
Tank Bot



Remote Control



Znap



Elephant



Stair Climber