

Scope and Sequence: 30-Hour Option

Activity	Description	Hours
Getting Started	LEGO® MINDSTORMS® EV3 Education Activities	3
Activity 1	Hello World	1
Activity 2	Motors and Sensors	1
Activity 3	Get Moving	1
Guided Experience	Engineering Notebook: Sessions 1-8	12
Session 1	Robot Lesson 1 and Project Spark 1	1.5
Session 2	Robot Lesson 2 and Project Spark 2	1.5
Session 3	Project Spark 1 and Robot Lesson 1	1.5
Session 4	Project Spark 2 and Robot Lesson 2	1.5
Session 5	Robot Lesson 3 and Pseudocode	1.5
Session 6	Robot Lesson 4 and Choose Problem	1.5
Session 7	Project Research and Robot Lesson 5	1.5
Session 8	Robot Lesson 5 and Project Development	1.5
Extended Experience	Engineering Notebook: Sessions 9-12	13
Extended Session 9	Project Continuation and Solve Missions • <i>Extended time to solve missions and develop Innovation Project solution.</i>	4
Extended Session 10	Presentation Work and Solve Missions • <i>Extended time to solve missions and work on Innovation Project presentation.</i>	4
Extended Session 11	Prepare Robot and Project Presentations • <i>Extended time to prepare and complete Robot Design and Innovation Project presentations.</i>	3
Extended Session 12	Practice Presentations and Robot Matches • <i>Extended time to practice before tournament.</i>	2
Tournament	Present Solutions and Compete in Matches	2