

## #45678—LEGO Education SPIKE Prime Set

The LEGO® Education SPIKE™ Prime Set is the go-to STEAM learning tool for pupils aged 11-14. Combining colourful LEGO building elements, easy-to-use hardware, and an intuitive drag-and-drop coding language based on Scratch, SPIKE Prime continuously engages pupils through playful learning activities to think critically and solve complex problems, regardless of their learning level. From easy-entry projects to limitless creative design possibilities, SPIKE Prime helps pupils learn the essential STEAM and 21st century skills needed to become the innovative minds of tomorrow... while having fun!

### KEY LEARNING VALUES

- Apply engineering design skills to each step of the design process.
- Develop efficient problem-solving and coding skills through decomposition of problems and algorithmic thinking.
- Design projects that combine hardware and software components to collect and exchange data.
- Work with variables, data arrays and cloud data.
- Apply critical thinking and develop life skills for the careers of tomorrow.



### 1. SPIKE PRIME SET

#### THREE (3) UNIT PLANS

##### 1. INVENTION SQUAD

Explore engineering.

##### 2. KICKSTART A BUSINESS

Investigate computer science.

##### 3. LIFE HACKS

Apply data practically.

⇒ **523 LEGO® Elements**

### 2. SPIKE PRIME EXPANSION SET

#45680 ONE (1) UNIT PLAN

*Additional unit:*

**COMPETITION READY** Use curiosity and teamwork.

⇒ **603 LEGO® Elements**

### SOLUTION COMPONENTS:

1. UNIT PLANS
2. BRICKS
3. INTELLIGENT HARDWARE
4. CODING

