

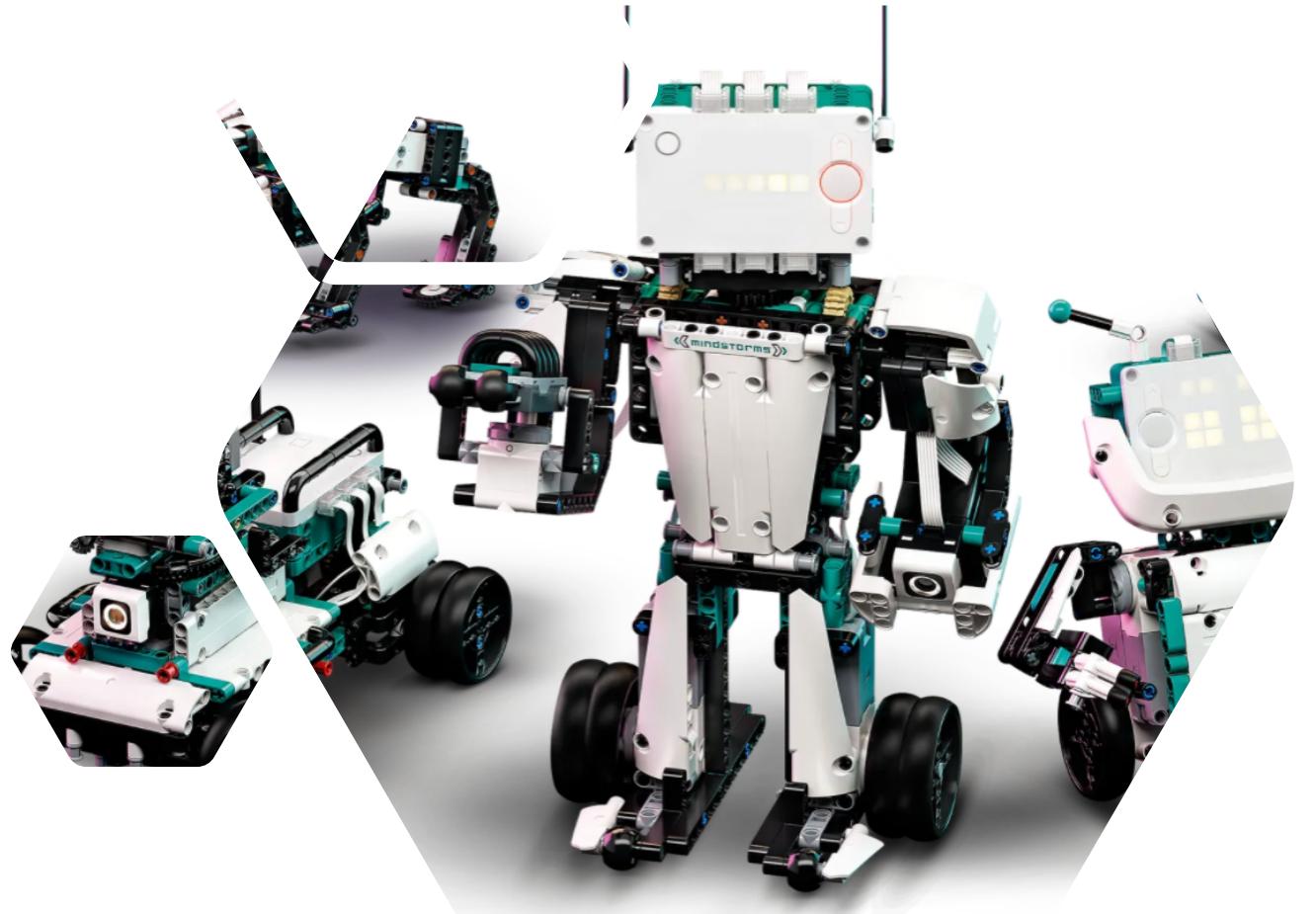
# SPIKE PRIME VS ROBOT INVENTOR

SANJAY & ARVIND SESHAN



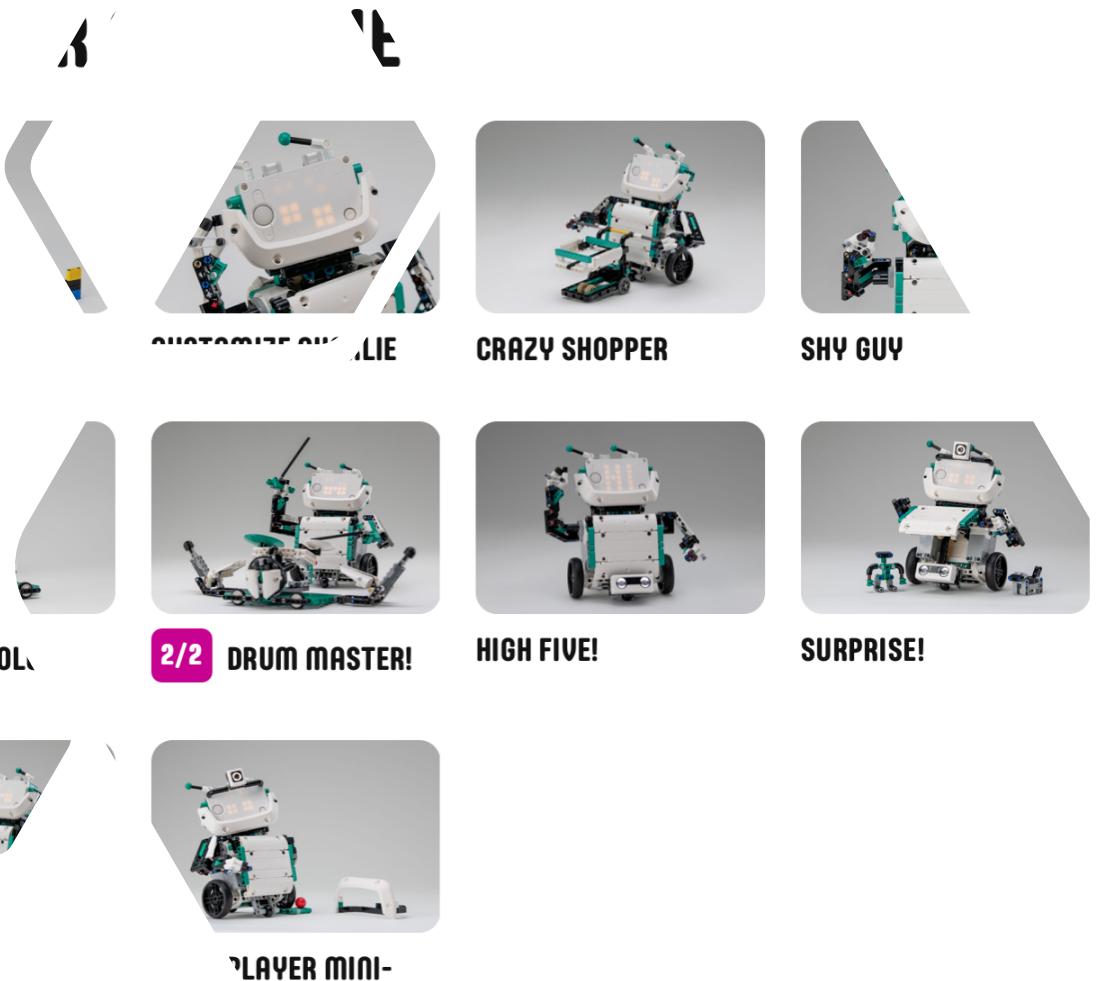
# OVERVIEW

- Five built-in models with instructions
- Custom blocks for those models
- Free programming area



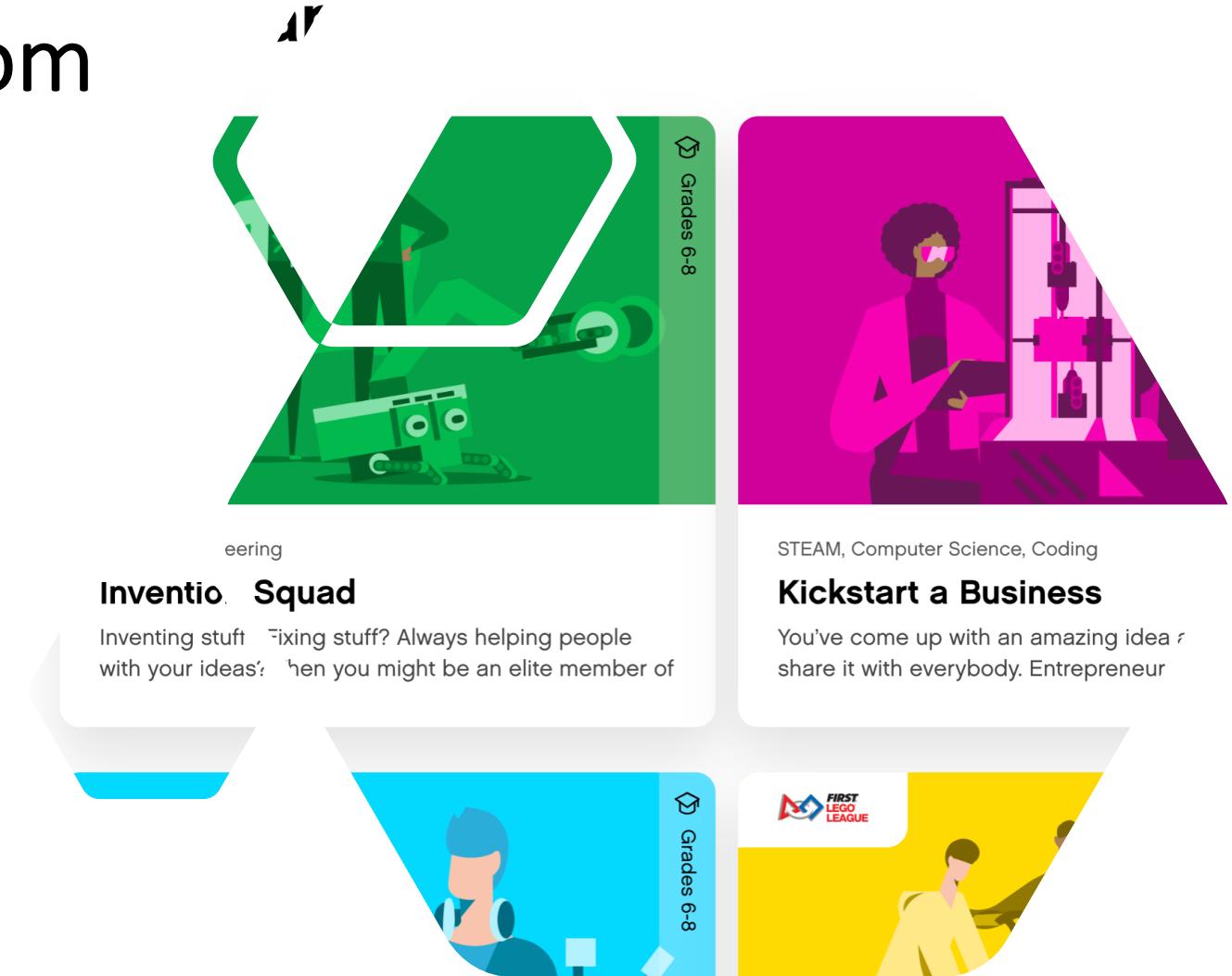
# 51515 IS PROJECT-BASED

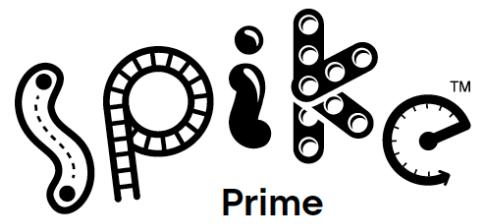
- Software walks you through building 5 large main models
- “Further Activities” expand on all the models
- Activities incorporate sensors
- Focus is on home learning and play



# SPIKE Prime: Classroom Activity Based

- Software takes you through 5 Units that have smaller models and guided lesson plans that can be completed in smaller classroom sessions
- Includes a “Competition Ready” Unit for FIRST LEGO League teams (required Expansion set)





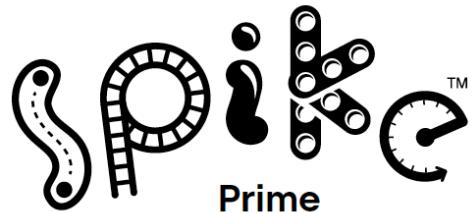
- 6 universal ports
- Powered-up cables
- 5X5 LED Matrix
- Yellow
- Bluetooth and USB
- **Sensors:** Distance 1, Color Force, built-in 6 axis gyro and accelerometer
- Distance Sensor with break-out interface
- **Motors:** 2 medium; 1 large (light azure)
- Storage Box



# MINDSTORMS®



- 6 universal ports
- Powered-up cables
- 5X5 LED Matrix
- Teal
- Bluetooth and USB
- **Sensors:** Distance, Color, built-in 6 axis gyro and accelerometer
- Distance Sensor with break-out interface
- **Motors:** 4 medium (light grey)
- No Storage Box

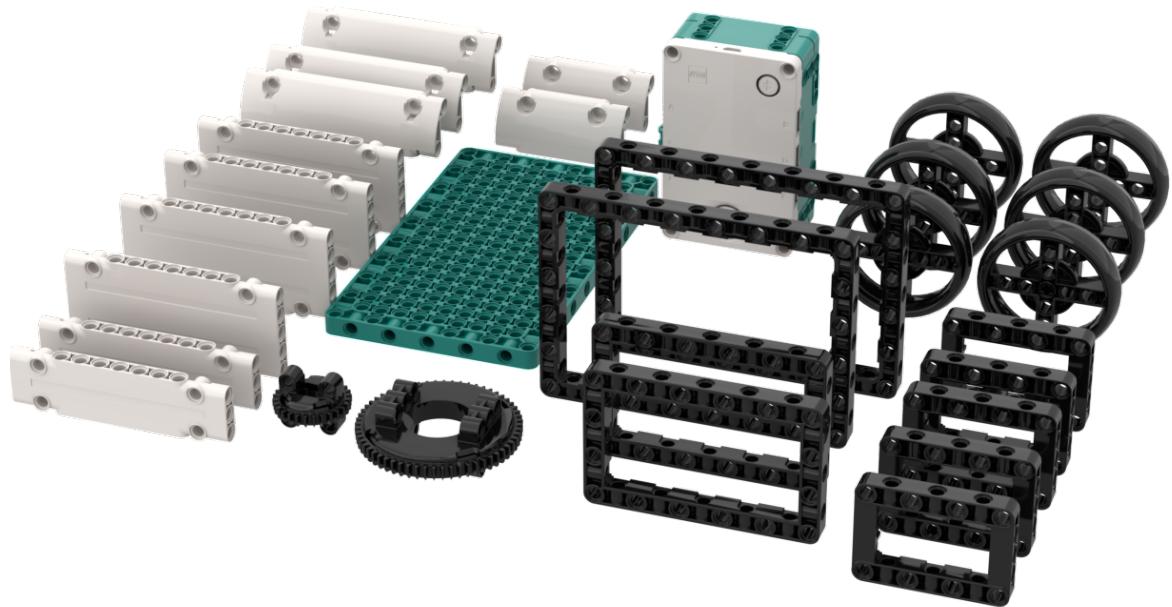


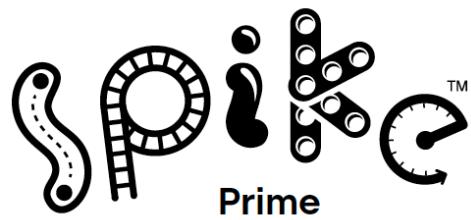
- 523 parts
- Caster wheel



# mindstorms®

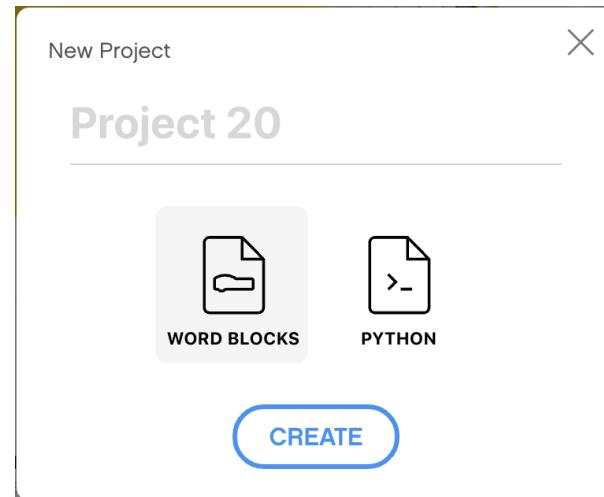
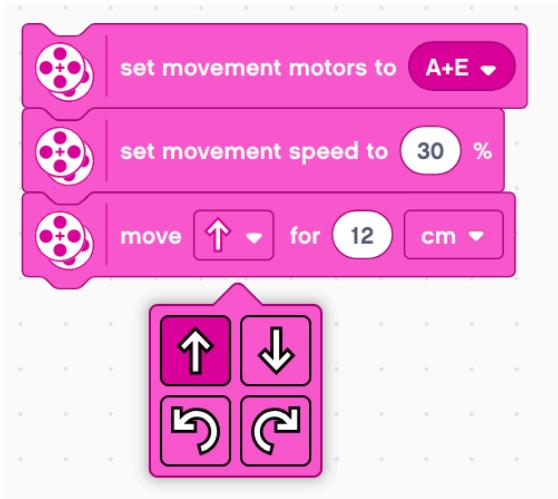
- 949 parts: More wheels, frames, and panels
- New differential gear (not pictured)



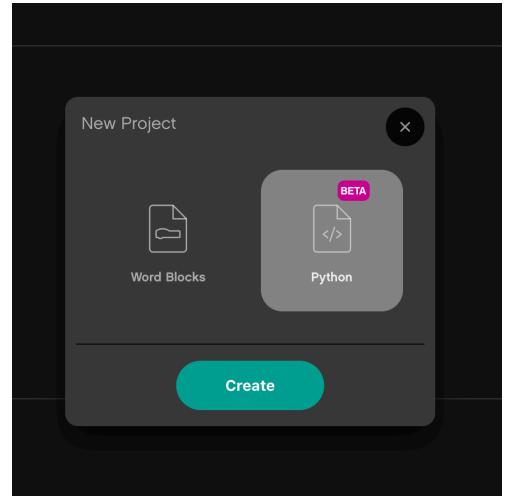
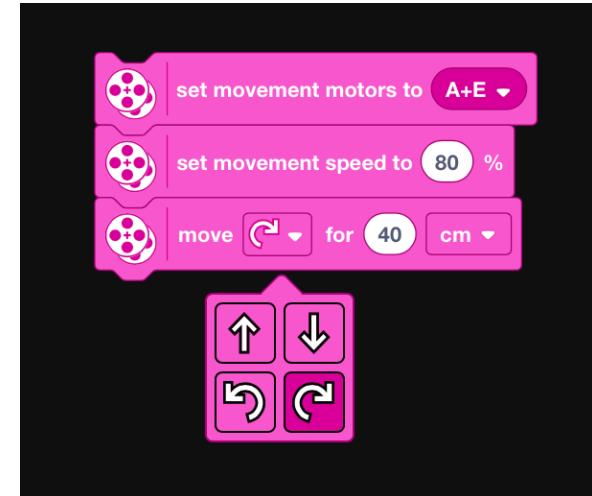


# mindstorms

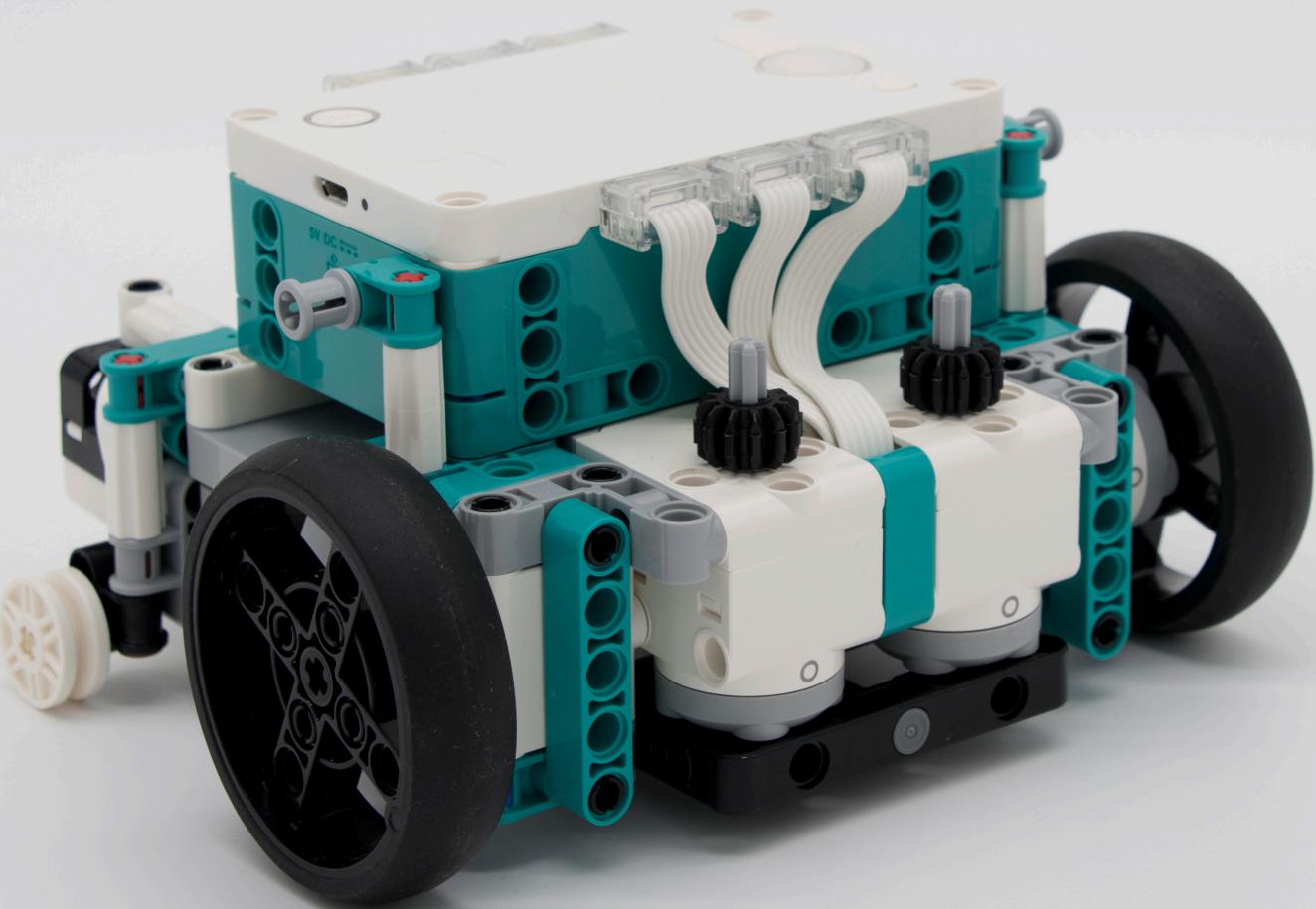
- Word Blocks and Python
- Light Background
- No remote control
- No custom blocks for models
- Extensions to add more blocks



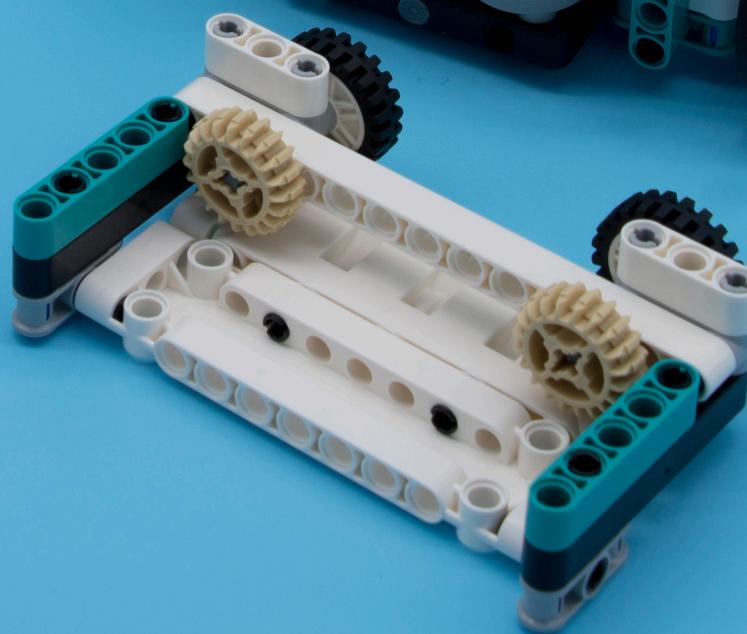
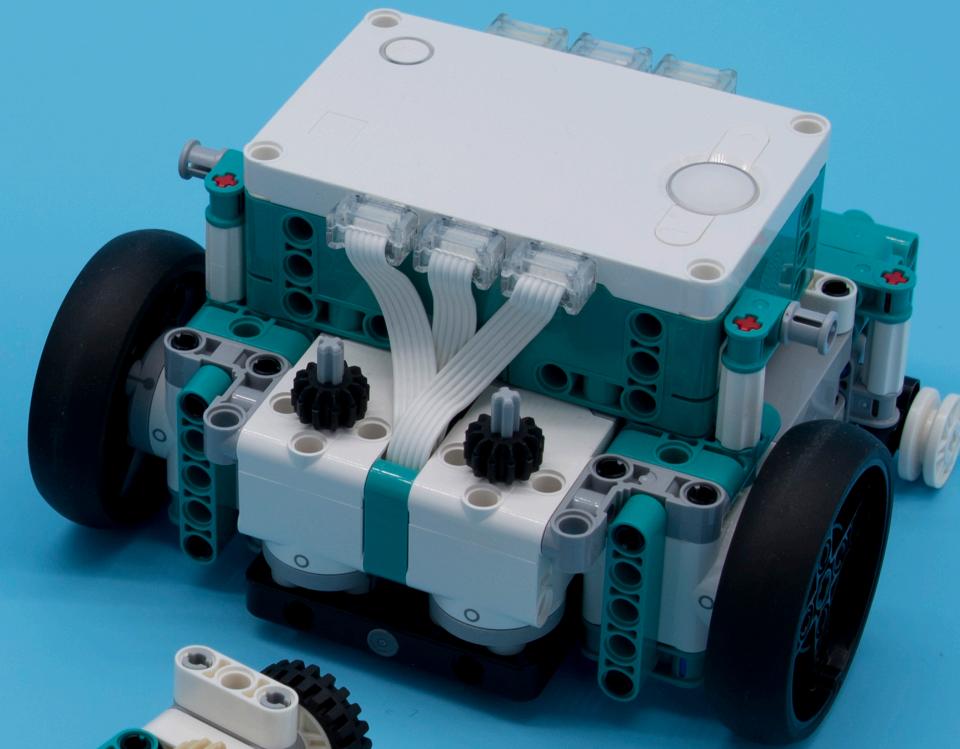
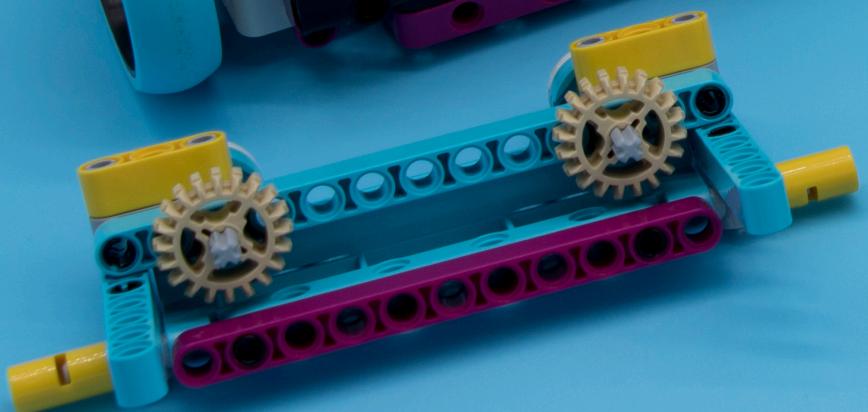
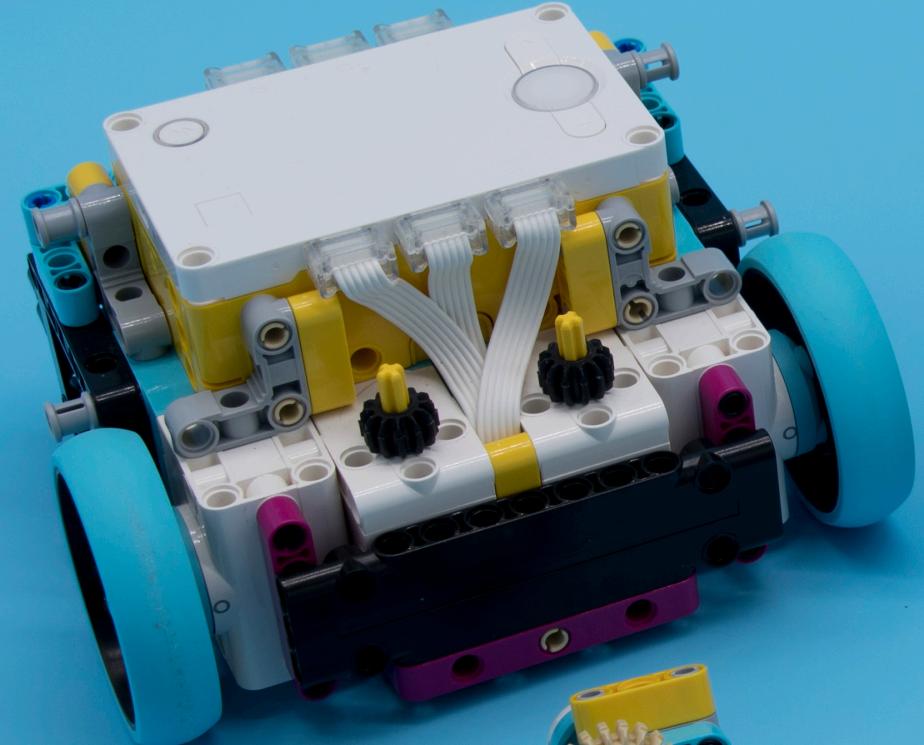
- Word Blocks and Python
- Black background
- Remote Control application
- Custom Blocks for main models
- Extensions to add more blocks

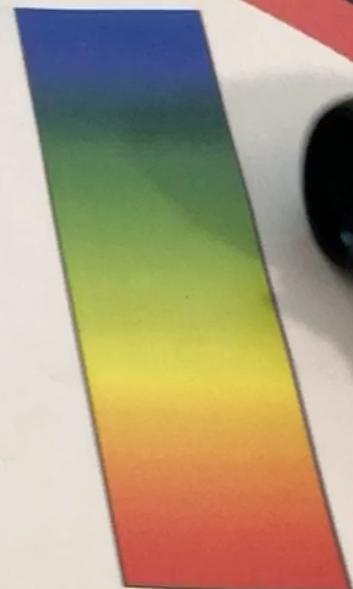
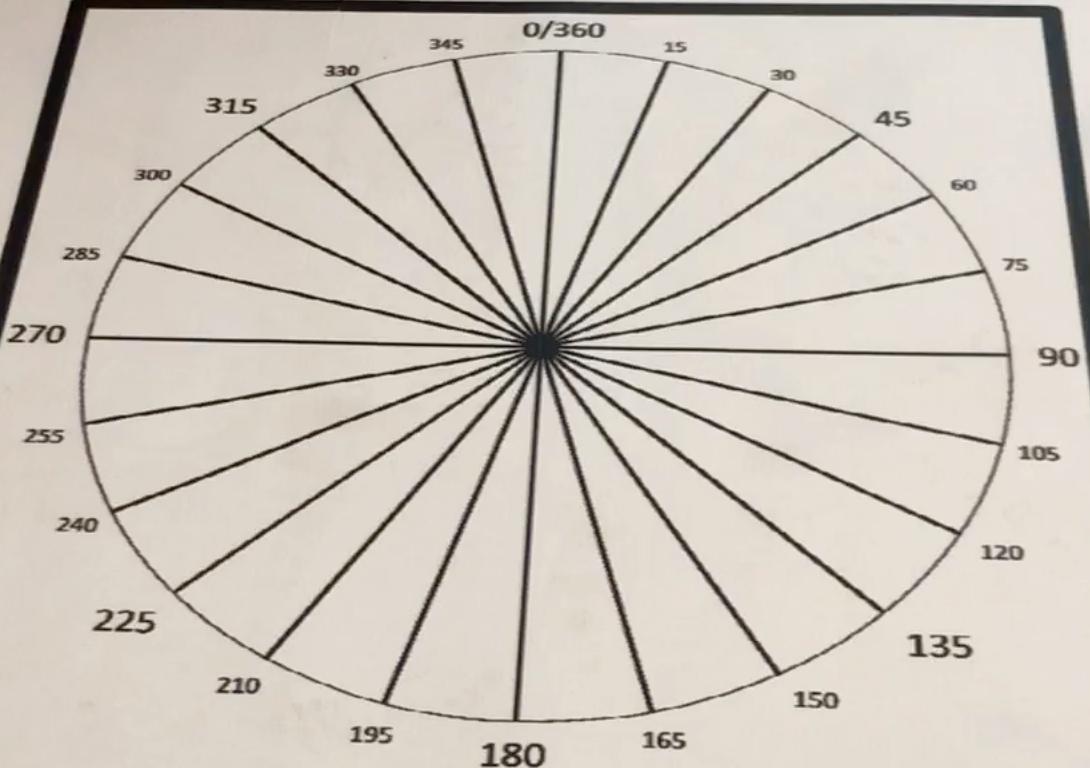


# CAN YOU BUILD A COMPETITION ROBOT?



Robot Inventor is allowed in FIRST LEGO League Challenge starting in the RePLAY season.

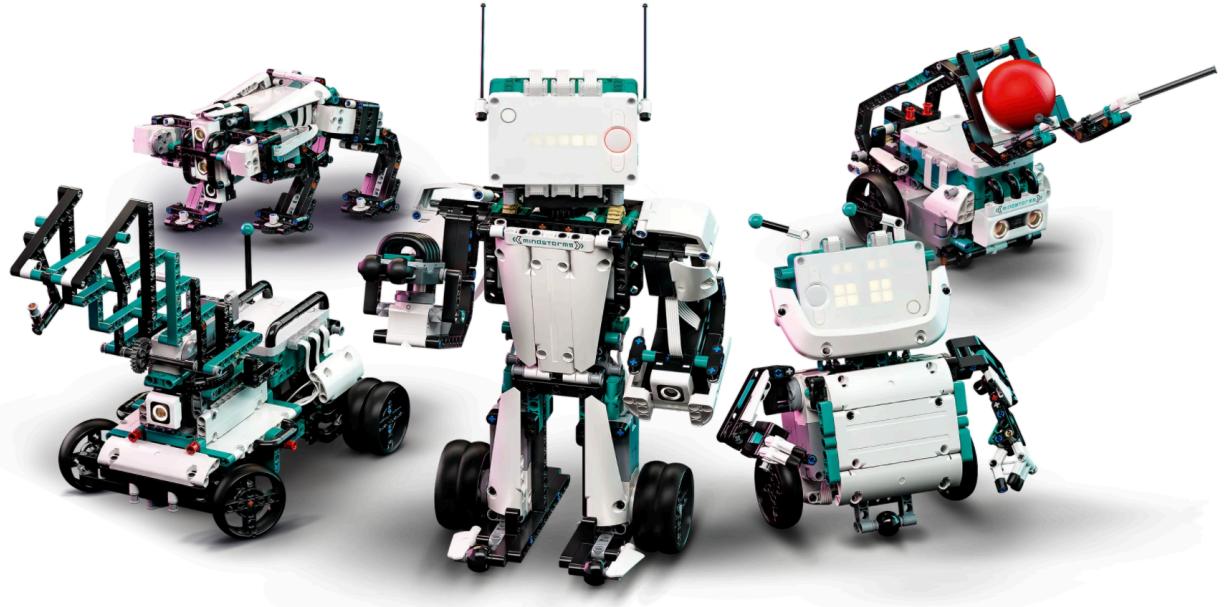




# FAQs

- Can you use a SPIKE Prime large motor in a MINDSTORMS Hub?
  - Yes
- Can you use MINDSTORMS motors/sensors on a SPIKE Prime Hub?
  - Yes
- Can you convert a SPIKE Prime into a MINDSTORMS Hub or the reverse?
  - You can run either firmware on either Hub.
- Can you convert a program from SPIKE Prime to MINDSTORMS or the reverse?
  - You can change the extension of a SPIKE Prime Program and have it open in the MINDSTORMS App

# CONTACT US



**MINDSTORMS®**

Watch:

<https://youtu.be/SxmeodiGyRc>

Contact us:

[team@ev3lessons.com](mailto:team@ev3lessons.com)