

AB360°

Middle School into College

AB360° Robot Kit (#32500; \$249) - Complete robot with 4 sensor systems, assembly required.

AB360° 12-Pack Plus (#32612; \$3295) - 12 robot kits PLUS 12 each of 3 add-on kits, 120 NiMH batteries with 5 chargers, and a set of spare components and hardware.

"I love the block to code translation - I think building circuitry & coding in one environment is awesome!"

- Sandra Leiterman
University Professor/Instructor

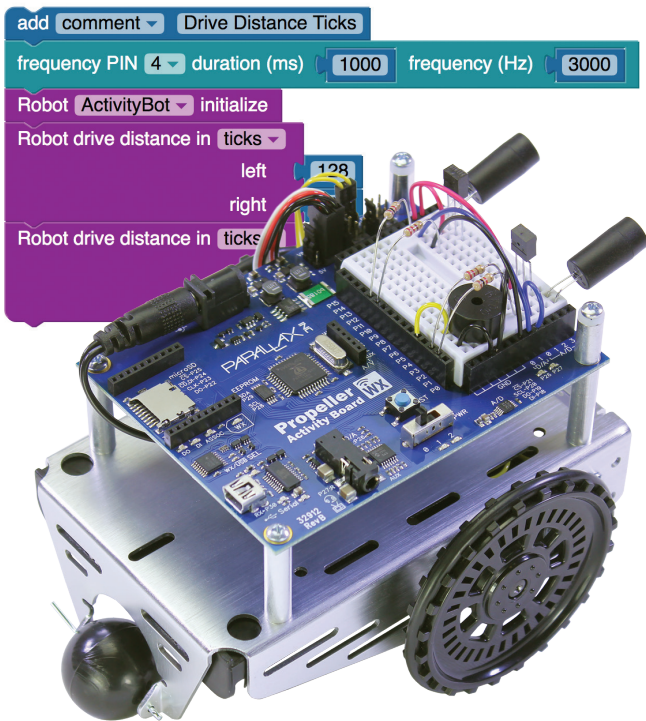
CAPABLE - With a multicore Propeller chip brain and high speed servos (with built-in encoders), the ActivityBot 360° robot does circles around the competition.

TRANSFERABLE STEM SKILLS - Electronics, programming principles, and circuit building are concepts covered by the tutorials.

UNDERSTANDABLE - Step-by-step web tutorials cover everything with both graphical BlocklyProp and text-based C programming.

VERSATILITY & FLEXIBILITY - The open platform has no special-brand connector limitations. Students can apply tools and skills they acquire to meet local needs with their own inventions.

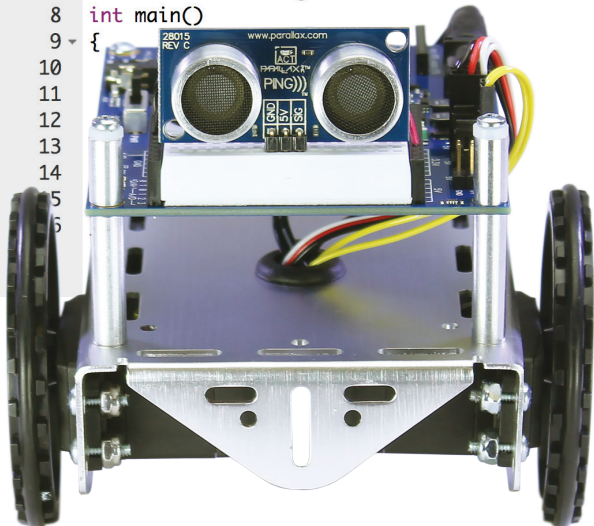
DURABLE - With free curricular resources and hardware, your cost is the initial purchase. We stock reasonably-priced replacement parts.



COMPATIBLE:



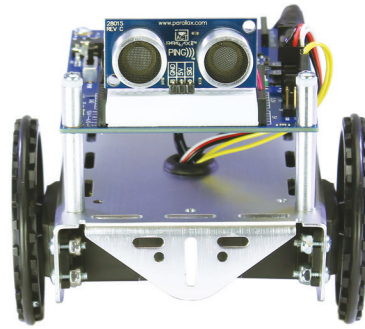
```
1 // ----- Libraries and Definitions -----
2 #include "simpletools.h"
3 #include "abdrive.h"
4
5
6
7 // ----- Main Program -----
8 int main()
9 {
10
11
12
13
14
15
16
```



EDUCATOR HOTLINE 916-625-6801
Monday through Friday, 7 AM - 7 PM Pacific.
Or e-mail education@parallax.com

PARALLAX 
www.parallax.com

Many robots go to middle and high schools.
The ActivityBot 360° would like to show you its report card.



```
Robot ActivityBot - Initialize ramping heavy -
repeat forever
do
  distance = (Ping)) distance in (inches) PIN (8)
  Robot drive speed left distance right distance
  pause (ms) 100
```



✓ Yes! ✗ Nope. ▢ Sort of...

Cost (USD, approx. per student)	AB360°	VEX IQ	Lego EV3	mBot	Dash	Sphero
Mid-range kit or including basic accessories	\$250	\$350	\$350	\$100	\$200	\$150
SKILLS						
Coding	✓	▢	▢	✓	✓	✓
Problem Solving	✓	✓	▢	✓	✓	✓
Building	✓	✓	✓	▢	✗	✗
Electronics	✓	✗	✗	▢	✗	✗
Go beyond the curriculum	✓	✓	▢	▢	✗	✗
HARDWARE						
American Company	✓	✓	✗	✗	✗	✗
Durable	✓	✓	✓	▢	▢	✓
Real-world components	✓	▢	✗	▢	✗	✗
Expandable	✓	✓	✓	✓	✗	✗
SOFTWARE						
Visual coding	✓	▢*	✓	✓	✓	✓
Text-based coding	✓	✓	✗	✗	✗	▢
Ease of use	✓	✗	✗	✓	✓	✓
Chromebook	✓	▢*	✓	✗	✗	✓
Windows	✓	✓	✓	✓	✗	✗
Mac	✓	▢*	✓	✓	✗	✗
CURRICULUM						
Easy to implement	✓	✗	✓	✗	✓	▢
Transferable skills	✓	✓	✗	▢	▢	▢
Scaffolded	✓	✓	▢	✓	✓	▢
Differentiable	✓	✗	✗	✗	▢	✗
Flexible/Modular	✓	✗	✓	✗	✓	✗
Free	✓	✓	✓	✓	✗	✓

* Support only with 3rd-party software

VEX and VEX Robotics are trademarks or service marks of Innovation First International, Inc. LEGO and EV3 are trademarks and/or copyrights of the LEGO Group. mBot is a trademark of Makeblock Co., Ltd. Dash is a trademark of Wonder Workshop, Inc. Sphero is a registered trademark of Sphero, Inc.