

Cubelets: Dynamic Connections

SENSE Cubelets



Brightness

Enable a construction to detect and respond to light.



Distance

Enable a construction to detect and respond to nearby objects.



Knob

Turn the dial to control a robot construction.



Temperature

Enable a construction to respond to changes in temperature.

THINK Cubelets



Battery

Provide the energy needed to power robot constructions.



Blocker

Stop data values and still share power.



Bluetooth

Pair robot constructions with free companion apps.



Bluetooth Hat

Easily pair robot constructions with free companion apps.



Inverse

Flip data values, making low values high and vice versa.



Maximum

Share the largest data value, ignoring all others.



Minimum

Share the smallest data value, ignoring all others.



Passive

Build bigger robots without modifying data values.



Threshold

Set the dial to block data values below the threshold.

ACT Cubelets



Bar Graph

Visualize the data values in a robot construction.



Drive

Build robot constructions that navigate their world.



Flashlight

Create constructions that shine a dimmable LED light.



Rotate

Create constructions that whirl and twirl.



Speaker

Create constructions that beep and boop.

S.T.A.

SENSE

THINK

ACT

Dynamic Connections

Exploration with just 3 blocks!

Additional Blocks

Activity Cards

Presentations

1. Draw & name the robot
2. Describe what the robot can do
3. Demonstrate the robot
4. Describe a “REAL LIFE” job for the robot
5. Discuss any changes/improvements to the robot

Clean Up

