

## WHAT MAKES A ROBOT?

**POWER** + **SENSE** + **ACTION** = ROBOT!



BATTERY



BRIGHTNESS



FLASHLIGHT

# cubelets

## BUILD A PAPER ROBOT



DISTANCE



ROTATE



TEMPERATURE



SPEAKER



KNOB



BAR GRAPH



Here is an example of a complete robot that drives and shines a flashlight! Do you see that it has a Battery for power, at least one Sense Cubelet, and at least one Action Cubelet?



DRIVE

**1** Carefully cut along the dotted lines around each Cubelet.

**2** Visit [modrobotics.com/cubelets](http://modrobotics.com/cubelets) to learn how each Cubelet contributes to the behavior of your robot!

**3** Carefully assemble a robot of your creation on a table or flat surface.

**4** Ask your parents or teacher to share a photo of your robot on Facebook or Twitter with the hashtag #Cubelets

**5** Keep inventing new robots. You don't have to stop at one!

ADD A THINK CUBELET TO MODIFY BEHAVIOR!



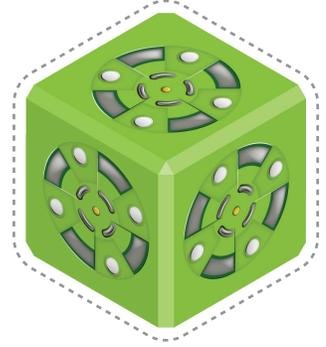
#### BLOCKER

A Cubelet that can connect independent robots and pass power but not data between them.



#### INVERSE

Flips the value it encounters - low values become high, and high values become low.



#### PASSIVE

Transmits power and data like a wire, and can extend and stabilize robots.

HERE ARE SOME EXTRA CUBELETS TO HELP YOU BUILD BIGGER AND BETTER ROBOTS!



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LEARN ABOUT CUBELETS ROBOT BLOCKS AT  
[www.modrobotics.com/cubelets](http://www.modrobotics.com/cubelets)