



Parkside Montessori LEGO

Break Dance

Name _____

Set # _____

We're going to do a new LEGO build today! The goal is to build a break dancing robot that moves in sync with a musical beat and reminds us to get some exercise every day. We'll also learn how to perform multiple motor actions so that they happen at the same time.

PART 1: The Build

1. Go to <https://spike.legoeducation.com>
2. Click on this button:



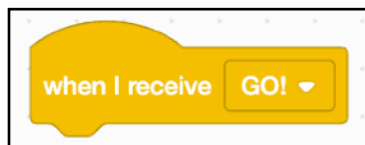
3. Click on **Unit Plans** => **Life Hacks** => **Break Dance**
4. Follow the instructions, make sure to click on the **BUILD** button when it appears and build both the dancer's legs and body.

PART 2: Controlling Your Dancer

Once you've completed the build, notice that you've been provided a pre-written program that contains some new blocks:



Imagine yelling in a room full of people so that everyone in the room can hear you. That's what this broadcast block does, it broadcasts a message that other parts of your program can hear.



This receive block listens for broadcasts and runs the blocks attached to it when the message it hears matches the one it's listening for. You can use multiple copies of this block and they will all run at the same time whenever the correct message is heard.



As instructed, modify the amount of time to wait during each *repeat* block to make the robot's legs and arms move at the same time as the numbers and the musical beat. Don't forget you can use numbers less than 1 second.

Part 3: Feedback

We're halfway through Parkside LEGO! Your feedback will help us make the second half better than the first!

How much are you enjoying Parkside LEGO (circle one)?

(not at all) 1 2 3 4 5 **(I want more!)**

How challenging has Parkside LEGO been for you? (circle one)?

(easy) 1 2 3 4 5 **(hard)**

What do you like the most about Parkside LEGO?

What's something about Parkside LEGO that we can work on improving?

Is there anything specific you would like to do or learn about in the second half?

Thanks for your feedback!