Challenges for Model 3 - Drumming Monkey


# Model 3 - Drumming Monkey 

 LEGO Educ ation WeDo

## Connect-Preparation and discussion

The children could disc uss these questions during circle time, or you could devise games to address them.

- Clap your hands. Can you create a nice pattem of beats?
- Tap on ... (the table, your legs, - adapt to situation). How are your arms moving? What are different ways you can move your ams (one at a time, two armstogether in the same direction or in altemating directions, ...)?
- Can you drum with your handsto create different pattems of beats? What makesthe sound? (Striking something makes the sound.)


## Engaging question:

Can we create a monkey taps different beats with his a ms?

* Show the children the poster of the Drumming Monkey to get them thinking about building this model.


## Construct

Model 3 - Drumming Monkey

## Contemplate and discuss

Tips that are given to the students on the site.


## Tip to launch the programme

Use the green arrow pictogram.
Tip to stop a programme
Click on the red square.

## Tip to program the duration (time)

Use the time pictogram and the 123 one. Place the cursor in the 123 box and type the number.

## Tip for the time

If you want the robot to move for 1 second, type 1 and add a 0 . If you want it to move 2 seconds, type 2 and add a 0 . If you want it to move 3 seconds, you know what to type and to add.


## Tip for the sound

Put together the music notes and the " 123 " pictograms. Place your cursor on 123. The letter " $T$ " appears and you can type a number. You can choose a mong 20 sounds: numbers 1 to 20.


## Tip for the power of the motor

Use a number from 1 to $10: 1$ is the weakest power, 10 the strongest. Place the cursor in the 123 box and type the number.

Pictograms to use in the challenges


## Here are a few challenges the children can do in class.

Note to teacher: In order to hear the sounds of the rhythms the monkey produces, place a glass or water bottles under his a ms. Adjust the height of the monkey by adding bricks at the bottom of the large grey 8X16 block if needed.

## Challenge 1

Make the arms of the monkey move.

## Challenge 2

Make the arms of the monkey move for 5 seconds.

* 1 sec ond $=10$


## Challenge 3

Find the kissing sound for the monkey.

## Challenge 4

Make the monkey move slowly for 5 seconds.

* Motor power: 1 to 10
* Time: 1 sec ond =10


## Challenge 5

The monkey gives a kiss and moves his arms for 4 seconds.

* Time: 1 sec onde $=10$


## Continue

Each team creates its own challenge using the pictograms in the exercises above. Plan a time during which each team can expla in and show their challenge to the class.

## Model 3 - Drumming Monkey Comection key

## Challenge 1

Make the a ms of the monkey move.


## Challenge 2

Make the arms of the monkey move for 5 seconds.


* 1 sec ond $=10$, so 5 sec onds $=50$


## Challenge 3

Find the kissing sound for the monkey.


* Kiss : sound 3


## Challenge 4

Make the monkey move slowly for 5 seconds.

(ora number between 1 and 5)

* 1 sec ond $=10$, so 5 sec onds $=50$


## Challenge 5

The monkey gives a kiss and moves his a ms for 4 seconds.


* 1 sec ond $=10$, so 4 sec onds $=40$
* Kiss : sound 3


## Continue

Each team creates its own challenge using the pictograms in the exercises above. Plan a time during which each team can expla in and show their challenge to the class.

## The answers are personal for each team

This work is distributed under the Creative Commons License- Attribution-Noncommercial-Share Alike 2.5 Canada available at http://creativecommons.org/licenses/by-nc-sa/2.5/ca/ or by mail from Creative Commons, 171 Second Street, Suite 300, San Francisco, Califomia 94105,USA

