

## NAME

Curious Creature

## DESCRIPTION OF ACTIVITY

In this activity the students will make a little family of fun sound activated curious creatures. By making and exploring parallellograms in mechanics they can make the creatures head stay level when the body rises off the ground.

By adjusting the sensitivity of the microphone and the dimensions the creatures will get a lot of character and personality.

To find an example of the Curious Creature, click HERE

## LEARNING GOALS

Explore:

- Mechanics
- Parallellograms
- Soft squares and their use in mechanics
- Sound input
- Motor output
- 3D construction


## PRE-REQUISITE KNOWLEDGE/SKILL

Strawbees construction

## MATERIALS NEEDED

1 LittleBits, 1 p1 power, 1 i 20 sound trigger, 1 o11 servo, 6 cable ties, 43 Strawbees ( 35 singles, 7 doubles, 1 five), straws and scissors.

E D U C A T I O N

CLASS DURATION

| DURATION | ACTIVITY | TIPS |
| :--- | :--- | :--- |
| 10 min | Introduction | Times may vary from group to group. |
| $20-30$ min | Make construction |  |
| 15 min | Assemble LittleBits circuits |  |
| 10 min | Connect LittleBits to construction |  |
| 10 min | Build and connect the servo arm |  |
| 15 min | Calibrate and play |  |

## ADDITIONAL CHALLENGE

- Make your creature react to something else in your LittleBits kit. What other inputs can your creature see/hear/feel?
- Give your creature eyes
- Add more mechanical movements, like arms, or maybe a jaw?

EDUCATION

STEP - BY - STEP INSTRUCTIONS


STEP - BY - STEP INSTRUCTIONS


## NOTES

## 4. CONNECT LITTLEBITS TO CONSTRUCTION ( 10 min )

Now it's time to connect the LittleBits to your creature. Use cable ties to secure the LittleBits build platform to the creature base.

To make the creature stand more steady, add another platform at the bottom of the creature. Secure it with cable ties.

More pictures can be found under additional resources.


