

# ART & CRAFT CREATIVE ROBOTICS

15<sup>th</sup> & 16<sup>th</sup> February, 2020



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# Activity 1: Build a Frog Robot using Art & Craft Materials

## Materials Required:

- a. High Density Foam Board or Cardboard
- b. Bamboo or Wooden Skewer Sticks
- c. Glue Stick
- d. Paper Knife
- e. DC Motor, Switch ,Battery Clip ,9V Battery
- f. Connection Board/Box
- g. Pre-cut pieces
- h. Design Sheet
- i. Glue (Fevicol, Fevikwik-Gel based)
- j. Mini craft drill
- k. Hot Glue Gun
- l. Colours and drawing materials
- m. Ruling Scale

## Building Instructions :

- a. Stick the design sheet on HDF / Cardboard .
- b. Using Paper Knife Carefully ,cut out the design .
- c. Follow the class instruction to place these pieces together using hot-glue or permanent glue.
- d. Cut the Skewer sticks and insert them in the body.
- e. Using permanent glue stick the stick and pre-cut pieces as instructed in class .

- f. Stick motor, battery & switch using hot glue as instructed in class
- g. The instructor will help to complete the Frog Robot
- h. Use your own imaginative skills to paint and design your own Frog Robot!
- i. Have Fun!

## Activity 2: Build a Bubble Shooter

### Materials Required:

- a) High Density Foam (HDF) Board / Cardboard
- b) Bubble Shooter disc
- c) DC Gear Motor, 9V Battery , Switch , Battery Clip
- d) Paper Knife
- e) DC toy Motor, Switch, Battery Holder, 2 AA Battery.
- f) Fan Connector for DC Toy Motor
- g) Connection Board/Box
- h) Design Sheet
- i) 300 ml Cold Drink Bottle
- j) Soapy Solution
- k) Glue (Fevicol,Fevikwik-Gel based)
- l) Mini craft drill
- m) Hot Glue Gun
- n) Colours and drawing materials
- o) Ruling Scale

### Building Instructions:

- a) Stick the design sheet on HDF / Cardboard.
- b) Using Paper Knife Carefully, cut out the design.
- c) Follow the class instruction to place these pieces together using hot-glue or permanent glue.
- d) Connect the Fan to the DC Toy Motor
- e) Complete the circuit as instructed in the class
- f) Connect Bubble Shooter Disc to the Gear Motor
- g) Create Soapy solution
- h) Turn on the switch and start shooting bubbles !
- i) Using colours and imagination give a theme to your bubble shooter !

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