وزارة الاتصـــــالات وتكنولوجيـــــا المعلومـــــات
Ministry of Communications and Information Technology
State of Qatar • دولـــة قطـــر

ستوديو 5
STUDIO 5

# Awareness Card

Lesson Plan

www.studio5.qa

# Awareness Card

Lesson Plan

**ZONE:** Technology Zone **AGE:** 7-10 years **EQUIPMENT** : Awareness Card, Conductive Tape, CR2032 Battery, Paper Clip, Chibitronics LED

## DESCRIPTION:

During this workshop, participants will assemble a simple circuit using conductive tape and chibitronics LED. Participants will learn about sustainability and awareness about energy conservation.

## DESIGN CHALLENGE:

Sameera wants to learn about energy conservation and sustainability by creating a interactive light card. Your task is to help her create a simple circuit with a switch mechanism that lights up her card using chibitronics LED.

## LEARNING OBJECTIVES:

After attending this session, participants will be able to:

- Understand the functions of a FabLab (Fabrication Laboratory)
- Learn about Environment and Sustainability
- Learn about conductive tape
- Learn components required to make a simple circuit
- Learn about circuits
- Create a simple circuit
- Create an awareness card

# Awareness Card



| DURATION | ACTIVITY | MATERIALS |
|---|---|---|
| 5 mins | • Introduction of EduTech's.<br>• Introduce Studio 5<br>• Explain what we are going to do today<br>• Define Fabrication Laboratory<br>• Explain the 4 zones in the FabLab | Projector/Screen |
| 20 mins | • Explain about energy saving and sustainability in Qatar<br>• Educate about Environment and Sustainability<br>• Demonstrate how to use art and craft to create interactive light designs<br>• Explain the components required to create a circuit: Wires, Conductive Tape, Batteries, Coin cell battery, Bulbs, LED etc<br>• Explain how a simple circuit functions<br>• Educate about various sustainable energy plants in Qatar | Projector/Screen |

# Awareness Card



| DURATION | ACTIVITY | MATERIALS |
|---|---|---|
| 1 hr 30 mins | Create an Awareness Card:<br>• Step 1: Fold the Awareness Card in half<br>• Step 2: Fold along the dotted lines of the Awareness Card<br>• Step 3: Stick the conductive tape as per the guide marked in the Awareness Card (make sure there are gaps or overlaps or else the circuit will not work)<br>• Step 4: Stick the Chibitronic LED in any of the marked locations (you can stick in all three as well)<br>• Step 5: Place CR2032 battery in the marked location<br>• Step 6: Fold the corner of card on top of the battery and secure it with a Paperclip<br>• Step 7: Optional: you can cut out a hole on the front facing side of the card<br>• Step 8: Optional: decorate the card with stickers and write an awareness message inside the card<br>• Step 9: You've created your sustainable light up card! | Awareness Card, Conductive Tape, CR2032 Battery, Paper Clip, Chibitronics LED, Hole puncher (optional), Stickers (optional) |
| 5 mins | • Summarize the workshop<br>• Question and Answer session<br>• End of workshop | Projector/Screen |

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# Thank You

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