

# Lesson Plan

## Lessons 1 - 2

### Pre-lesson Task

Students get to know about LilyPad by reading the Information Sheet provided by the teacher and searching online.

Learning Focus (Time)	Activity / Content	Teaching Strategy	Learning & Teaching Resources
<b>Students learn programming with mBlock (3 hours)</b>	<ol style="list-style-type: none"> <li>Two S5 student instructors are responsible for the workshops. They teach S2 students basic programming with mBlock.</li> <li>S2 students learn and practise by writing some programmes to control the patterns of blinking of LEDs.</li> <li>S2 students start to design and write their own programmes for LilyPad.</li> <li>Each group does a trial of connecting the electric parts to build a circuit. At last, they try to test the programmes by using LilyPad</li> </ol>	<p>Group discussion</p> <p>Presentation</p> <p>Questioning</p>	<p>LilyPads, LEDs, conductive thread, button cell battery, etc.</p> <p>Powerpoint</p>

## Lessons 3-6

Learning Focus (Time)	Activity / Content	Teaching Strategy	Learning & Teaching Resources
<b>Students design and make their wearable electronic clothes (6 hours)</b>	<ol style="list-style-type: none"> <li>Students work in pairs to write the programmes and build the circuit according to their designs.</li> <li>Teacher asks effective questions to stimulate students' thinking.</li> <li>Teacher identifies students' need and gives assistance to individual students.</li> <li>Students tackle the problems during the learning process.</li> </ol>	<p>Questioning</p> <p>Group activity</p>	<p>LilyPads, LEDs, conductive thread, button cell battery etc.</p> <p>Worksheet (1) &amp; (2)</p>

### Extended Learning Activity

Students showcase and present their final products in a live fashion show. After the show, they can complete the Extension Worksheet for self-reflection.