Sensing the World

Monday, 27 June 2016

11:46 AM

# Summary

This session aims to introduce students to data collection with robotics at the centre of the class. Demonstrating how electronics can 'sense' the world around them by collecting data, analysing the data, and then using that data to perform a specific action.

Integration Friendly

EAL Friendly

High-Achiever Friendly

# Background Knowledge

Students are required to have completed the [Introduction & Movement](onenote:#Introduction%20%20Movement&section-id={AFFAF6A3-707E-46CC-9B75-EC806F30448E}&page-id={382D8A06-C40B-471C-9EB2-C3F7BBBDF2BA}&end&base-path=https://eduvic-my.sharepoint.com/personal/09048098_education_vic_gov_au/Documents/Staff%20Notebooks/ESC%20Technology%) lesson which shows students how to connect and test their robot is working.

# Fundamentals of this Lesson

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| --- | --- |
| Learning Intention | Success Criteria |
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| Core Content | Activities / Assigned Questions |
| Sensing with Sensors  |  |  | | --- | --- | | C:\AD8CCC65\85FC3662-0AA7-43E3-BCB0-106FB5E5781B_files\image001.png | Explains to students what the Ultrasonic sensor does and how it works.  Also includes the following tasks:   * Saying "Hello" * Ultrasonic Sensor 101 * If Statements * If-Else Statements     <<mBot Ultrasonic Sensing.pptx>> | | C:\AD8CCC65\85FC3662-0AA7-43E3-BCB0-106FB5E5781B_files\image001.png | Line Following Sensor  <<mBot Line Follower sensor.pptx>> | | |  |  | | --- | --- | | C:\AD8CCC65\85FC3662-0AA7-43E3-BCB0-106FB5E5781B_files\image002.png | Additional Core Tasks | | C:\AD8CCC65\85FC3662-0AA7-43E3-BCB0-106FB5E5781B_files\image003.png | Integration Tasks | | C:\AD8CCC65\85FC3662-0AA7-43E3-BCB0-106FB5E5781B_files\image004.png | EAL Support Tasks*Vocab*  * ***Example*** Description  *Activity* Refer to Integration Task | | C:\AD8CCC65\85FC3662-0AA7-43E3-BCB0-106FB5E5781B_files\image005.png | Extension Tasks No extension tasks exist for this content | |
| Helpful Teacher Resources | Staff Feedback |
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# Victorian Curriculum Links