# Lesson 5 – Bit:Bot Build

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| The Big Picture – Why Is This Relevant? | Learning Objectives |
| * Learners get a good grasp of the features and how they work together | * Identify all the components to assemble your Bit:Bot * Correctly assemble your Bit:Bot * Test your Bit:Bot’s basic functionality using the codes from Lessons 4 and 5 |
| Engagement – How Can I Engage Learners? | Assessment for Learning |
| * Learners enjoy the build. * Learners work in teams and take responsibility for their team’s robot. | **Expected Progress:**   * Learners work in a team to build their Bit:Bot   **Good Progress:**   * Learners are able to build and are supported to test their Bit:Bot   **Exceptional Progress:**   * Learners successfully assemble and test their Bit:Bot working well in a team with good communication |
| Key Concepts | Key Words |
| * Following instructions carefully to assemble Bit:Bot * Getting Learners to think about how the instructions could be improved for when they develop their own assembly plans |  |
| Differentiation | Resources |
| * Some Learners will rush the build and may need support to ensure components are fitted in the correct orientation * Time and care need to be taken to ensure everything is connected correctly * Make sure the micro:bit is mounted the right way round and the power is off when the battery pack is connected | * Lesson 6 ppt * Lesson 6 Activity Sheet * PC * Access to <https://makecode.microbit.org> * Access to [www.4tronix.co.uk/bitbot](http://www.4tronix.co.uk/bitbot) if required or ‘Bit:Bot Build Instructions’ sheet * Bit:Bot |
| Lesson flow | |
| * Discuss with Learners the need to follow instructions carefully and work in a team * Remind Learners that they will be creating their own build inspections for their own designs later so to think so how the instructions could be clearer * Encourage Learners to experiment and attempt the stretch tasks * Organise Learners into teams and provide micro:bit and Bit:Bot * Give Learners access to the 4tronix website or the build instructions worksheet * Give Learners an opportunity to test their Bit:Bot work after they have been assembled. | |
| Making | |
| * Assemble the Bit:Bot | |