# Lesson 12 – Musical Performance

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| The Big Picture – Why Is This Relevant? | Learning Objectives |
| * Combine the music code and speech code to program a musical micro:bit performance for your teacher and class | * Recap how a speaker works and what modules are * Know how the micro:bit produces speech * Program the micro:bit to speak * Edit the quality of the speech |
| Engagement – How Can I Engage Learners? | Assessment for Learning |
| * Learners could film and share their performances on social media * Making the voices sound like a robot or an elf is engaging * Writing a song using music and speech enables Learners to work together and perform for the class. | **Expected Progress:**   * Learners wire up the speaker to a micro:bit * Learners can program simple music   **Good Progress:**   * Learners compose using notes and music * Learners combine with the speech code * Learners edit the speech settings to improve the quality of the voice   **Exceptional Progress:**   * Learners produce a quality performance * Learners include LEDs as part of the performance |
| Key Concepts | Key Words |
| * Programming notes * Use of the rest code * Programming speech * Improving the quality of speech * Creating a performance | * Modules * TTS text to speech * Phoneme |
| Differentiation | Resources |
| Learners can work in groups or pairs if one is more musically able. This will help to support the compositions of the music | * Lesson 12 ppt * Lesson 12 Activity Sheet * Sample Python code * 1 micro:bit per learner * 1 USB cable to connect the micro:bit to a PC * A PC * Access to <https://python.microbit.org/v/1.1> * Crocodile clips * Headphones or speakers |
| Lesson Flow | |
| * Learners set up their speakers / headphone * Teacher explains the activity * Learners create their musical program * Learners test the program * Teacher to support where required * Learners share project with other class members * Learner score the performances to choose the winner | |
| Making | |
| There are no making activities in this lesson.   * Creating a speech program * Adjust the quality of the speech * Program poetry / speech, a quiz or a song | |