Lesson 12 – Activity Sheet

Getting Started

Combine the music code and speech code to program a musical micro:bit performance for your teacher and class.

Success Criteria

The musical performance must have:

* Music
* Speech

**Some Ideas**

Here are some possible ideas that could be programmed:

* Program the micro:bit to sing and play your favourite song?
* Build a rapper machine that spits out hot bars
* Compose an original theme tune for a film
* Create a backing track which you sing over the top of

**Design**

None required for this project

## **Materials Needed**

## Headphones / speaker and crocodile clips.

## Pro-tip

Try and make use of the rest code as this adds pauses to your melody and will improve the overall feel of the music that you have created.

## Test Time

Download your musical performance to your micro:bit and test it. Make any required improvements to the program.

## Stretch Tasks

* Use the LEDs to add images or lights to your performance
* Add more than one tune that is controlled by the buttons

## Final Thoughts

The musical performance will be scored by the other students and the overall winner selected. Ensure that you use both music and speech to access the points.

## **Scorecard**

Ask each learner to complete a score card for each of the performances.

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| --- | --- | --- | --- | --- | --- | --- |
| Name | Quality  (1 poor – 5 great) | Use of LEDs  (1 poor – 5 great) | Speech  (1 poor – 5 great) | Music  (1 poor – 5 great) | Fun  (1 poor – 5 great) |  |
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