

# Making a Music Box with Micro:Bit

In this project you will make a music box. When you press button A, it will play these notes. You may need to adjust the pause durations as well as the beat values. If things are correct, this should play Beethoven's Ode To Joy. To hear the sound, you will need to hookup some headphones to pin 0 and Ground. If you are using V2 of Micro:Bit you do not need to hookup headphones.

Note (Frequency Hz)	Beats	Pause (ms)
Low B (247)	1/2	300
Low B (247)	1/2	300
Middle C (262)	1/2	300
Middle D (294)	1/2	300
Middle D (294)	1/2	300
Middle C (262)	1/2	300
Low B (247)	1/2	300
Low A (220)	1/2	300
Low G (196)	1/2	300
Low G (196)	1/2	300
Low A (220)	1/2	300
Low B (247)	1/2	300
Low B (247)	1	500
Low A (220)	1/4	200
Low A (220)	1/4	200

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on button A pressed
  play tone Low B for 1/2 beat
  pause (ms) 300
  play tone Low B for 1/2 beat
  pause (ms) 300
  play tone Middle C for 1/2 beat
  pause (ms) 300
  play tone Middle D for 1/2 beat
  pause (ms) 300
  play tone Middle D for 1/2 beat
  pause (ms) 300
  play tone Middle c for 1/2 beat
  pause (ms) 300
  play tone Low B for 1/2 beat
  pause (ms) 300
  play tone Low A for 1/2 beat
  pause (ms) 300
  play tone Low G for 1/2 beat
  pause (ms) 300
  play tone Low G for 1/2 beat
  pause (ms) 300
  play tone Low A for 1/2 beat
  pause (ms) 300
  play tone Low B for 1/2 beat
  pause (ms) 300
  play tone Low B for 1 beat
  pause (ms) 500
  play tone Low A for 1/4 beat
  pause (ms) 200
  play tone Low A for 1/4 beat
  pause (ms) 200
```