Unit 1: Getting Started

Mission 5: Micro Musician



Intro and Discussion Points:

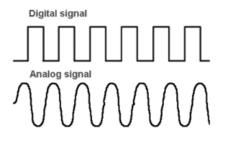
Computers and music go great together! This project

brings together coding, electronics, and music. The CodeX has a built-in speaker, and there are lots of built-in tunes to play, so this is a short and sweet project to begin expanding students' view of the possible ways they can use coding.

You might ask students: "Where is the speaker on the CodeX?" Cool sounds can be made just by sending electrical pulses (binary 1's and 0's) to the speaker under software control. Code *really* rocks!



Type of Input Device	Examples	Type of Data Read
Analog Sensor	Flex sensor, Pressure sensor, Photocell	Range of values, e.g. • 0-255 • 0-1023
Digital Sensor	Push Button	 0 or 1 On or Off True or False High or Low



CodeX Lesson Plans		
UNIT 1 : Getting Started	MISSION 5: Micro Musician	# DAYS: 1
UNIT GOALS: Students will learn the basics of Python.	ADDITIONAL MATERIALS:batteries	VOCABULARY: Mechanical waves Amplifier mp3
FOCUS CSTA STANDARDS: 1B-CS-01, 1	LB-CS-02, 1B-CS-03, 2-AP-16, 1B-IC-18	
	usic through the speaker or headphones ode to make it readable by all	5
SUCCESS CRITERIA: Play some of the CodeX's bui Add comments to the code	ilt-in songs	
 KEY CONCEPTS: You can "import" new code r Batteries can make your Cod 		(like music) with python's import statement.
	CodeX's repertoire songs to the prior mission's remix game	program on the CodeX and run it off batteries.
TEACHER NOTES: Always refer to Appendix A: if you g	et stuck. It has the "Answer Keys" for yo	