## Advanced Music Notesheet

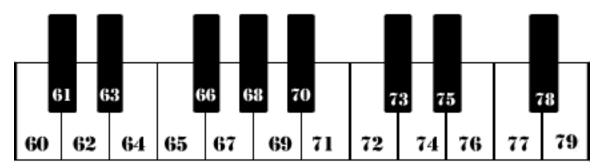
Name:\_\_\_\_\_

Sheet Music in Scratch

- You can write sheet music in Scratch using the "play note" block and the "rest" block.
- The following music can be written in the following script.

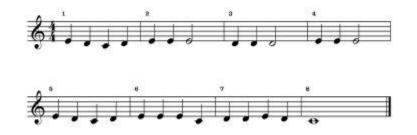
-0									
67									
94					-	•	• •		6
	Twin-kle,	twin-kle	lit - tle	star,	How	Ι	won-der	what you	are.
			play not	e 607	for 1	beat			
			play not	e 607	for 1	beat			
			play not	e 677	for 1	beats	<b>J</b>		
			play not	e 677	for 1	beats			
			play not	e 697	for 1	beats			
		-	play not				2 C		
			play not						
			play not	e (657)	for 1	beats			
			play not	e 657	for 1	beats			
			play not						
		-	play not						
			play not						
			play not						
			play not	e (60 )	for 2	beats			

- The music follows the beats that are written in the music, with the quarter note having a length of one beat.
- The notes are in increments of half steps, and Scratch defines 60 as middle C. This results in the following arrangement of notes.



(The notes go higher than 79, and lower than 60. This is just an example of how the keyboard is numbered in Scratch)

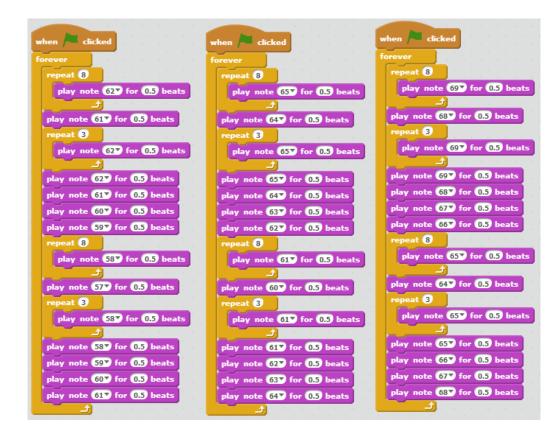
Try filling in the code for "Mary had a Little Lamb"



play note	📄 for 🔵	beats
play note	📄 for 🔵	beats
play note	📄 for 🔵	beats
play note	📄 for 🔵	beats
play note	📄 for 🔵	beats
play note	📄 for 🔵	beats
play note	📄 for 🔵	beats
play note	📄 for 🔵	beats
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play note	📄 for 🔵	beats
play note	🔵 for 🔵	beats
play note play note	for for	beats beats
	for (	
play note	for (	beats
play note play note	for for	beats beats beats
play note play note play note	for for for	beats beats beats beats
play note play note play note play note	for for for for	beats beats beats beats beats
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play note play note play note play note play note play note play note	for	beats beats beats beats beats beats beats
play note play note play note play note play note play note play note play note	for	beats beats beats beats beats beats beats beats
play note play note play note play note play note play note play note play note play note	for	beats beats beats beats beats beats beats beats beats

Polyphonic Music in Scratch

- Multiple melodic and harmonic lines can be written in Scratch.
- By using the "when flag is clicked" and the "broadcast" blocks you can create music that will play at the same time.
  NOTE: Sometimes they will get off-beat. Try using a combination of flag and broadcast for this, or give all of the parts the same rhythm.
- The following code is the beginning of "Phantom of the Opera"



• Try making your own polyphonic music. You can use different instruments to make ensemble pieces.