



សាលាអន្តរជាតិ ហ្សាយអិន ភ្នំពេញ

ZION INTERNATIONAL SCHOOL OF PHNOM PENH

"GROWING THE FUTURE ONE CHILD AT A TIME"

Semester 1 Test

Academic Year 2024-2025

Date: December 10th, 2024

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Subject: Cambridge Computing
Level: Grade 4
Time: 10:30-11:15 PM
Duration: 45 minutes

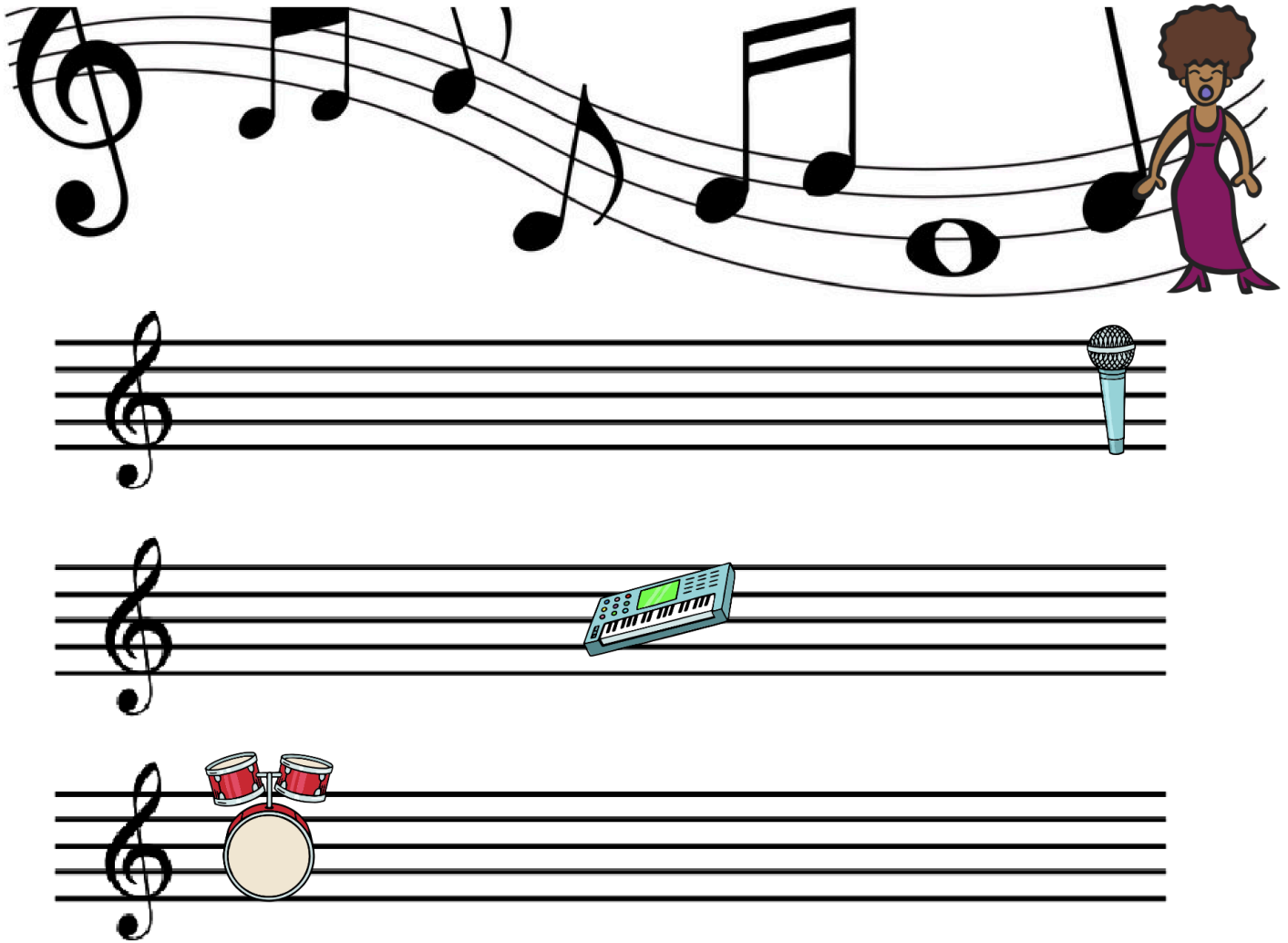
Student's Name:

Instruction

- I. Login to your scratch account
- II. Go to class studio, open **Starter Grade4-Semester1-Test**, click on the project then **remix** or go to the starter project: <https://scratch.mit.edu/projects/1106890916/>
- III. Follow the instructions to complete the project
- IV. After you complete the project, click on **Share** then **Add to Studio**, add to **Grade4-Semester1-Test**

Topic

We will code an interactive music staff, with animated instruments that use different kinds of iteration.



There are 3 tasks:

1. [Make the drum track.](#)
2. [Make the keyboard track.](#)
3. [Code the microphone track.](#)

Make the drum track.

The drums will play when the “d” key is pressed.

You will use a count-controlled iteration to keep the drums on the music staff.

Add the following code to the drum sprite:

1.	When “d” key pressed
2.	Go To x: -130 y: -130
3.	Repeat 0
3.1.	Next costume
3.2.	Move 50 steps
3.3.	Play sound “Drum bass 3” until done
3.4.	Play sound “Low Tom” until done
3.5.	Play sound “Low Tom” until done

Change the number of iterations to keep the drum on the music.

Make the keyboard track.

The keyboard will play forever, when the green flag is clicked.

Add the following code to the keyboard sprite:

1.	When green flag clicked
2.	Forever
2.1.	Next costume
2.2.	Play sound "C Elec Piano" until done
2.3.	Next costume
2.4.	Play sound "G Elec Piano" until done

Code the microphone track.

The microphone will play when the “m” key is pressed.




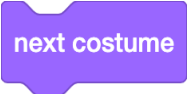

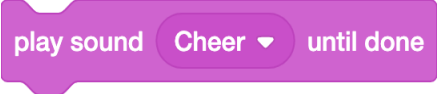

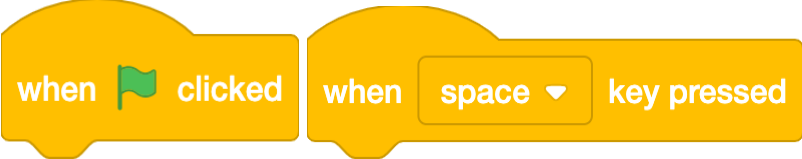



You will use a condition-controlled iteration to to keep the microphone on the music staff.

Add the following code to the microphone sprite:

1.	When “m” key pressed
2.	Go To x: -130 y: 20
3.	Repeat until touching Singer1
3.1.	Next costume
3.2.	Move 100 steps
3.3.	Play sound “Singer2” until done

Ensure that the iteration ends correctly (**hint:** The repeat only ends when the microphone touches the singer. Is the singer in the right place?).

You will use the following blocks

 Motion	
 Looks	
 Sound	
 Events	
 Control	
 Sensing	