

Age:

7-12 years

Lesson duration:

60 minutes

- Introduction: Can we tell our program what to do? (15m)
- Part 1: Input (20m)
- Break (5m)
- Part 2: Enhancements (15m)
- Performance/Critique (10m)

Number of students:

Up to 10.

Rationale:

Students will learn about different approaches to paint.

Objectives:

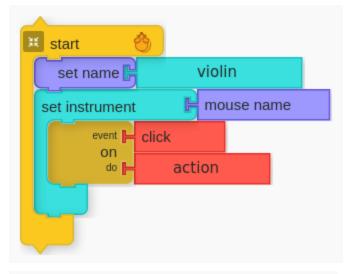
Students will understand how to combine music and paint in an interactive experience.

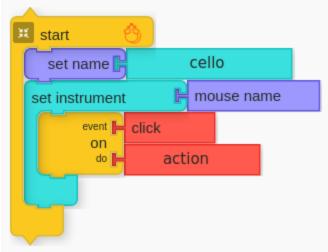
LESSON

Introduction: Can we tell our program what to do?

Part 1: Using the Input block.

A.

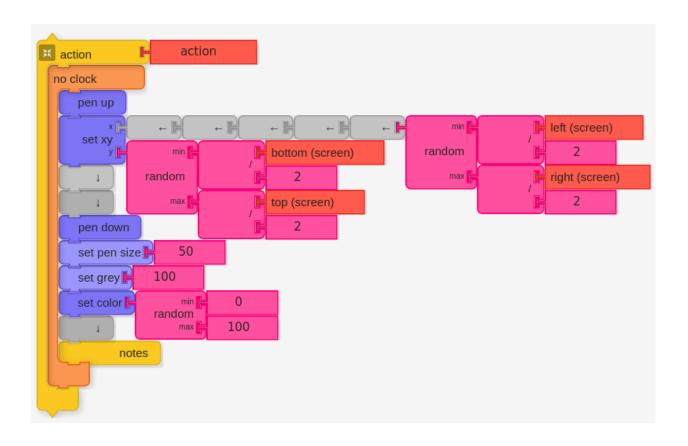


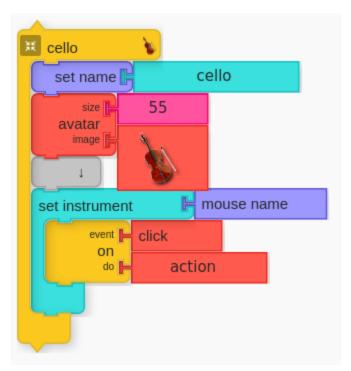


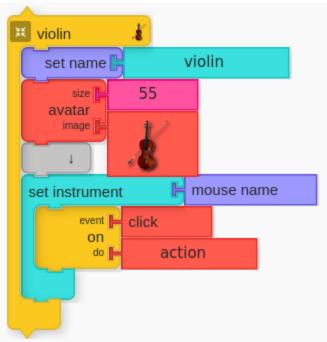
Break

Part 2: Enhancements

A.







```
notes
x action
                                        1

    i note
    i
                                        8
          name 📙
                       do
          pitch
                        5
          octave
                                 5
  decrescendo
                       mode length
    repeat
                                             1

    i note
    i
                                             8
            scalar step (+/-) |
                           30
               angle 🃙
                arc
               radius 📙
                       grey
                to 📙
                     grey
             add
             value 📙
                         -10
               to 📙
                     pen size
             add
                         -5
             value 📙
```

Performance/Critique:

- 1. Have each student talk about how they used Input.
- 2. Engage in a discussion about their different approaches.

Key events:

• Introduction of key concepts: Input, interaction.

Materials:

• Music Blocks software

Assessment:

- Observe participation.
- Does the program perform as expected?



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