

xploris  
ARTS

Happy Birthday

# xploris

ARTS

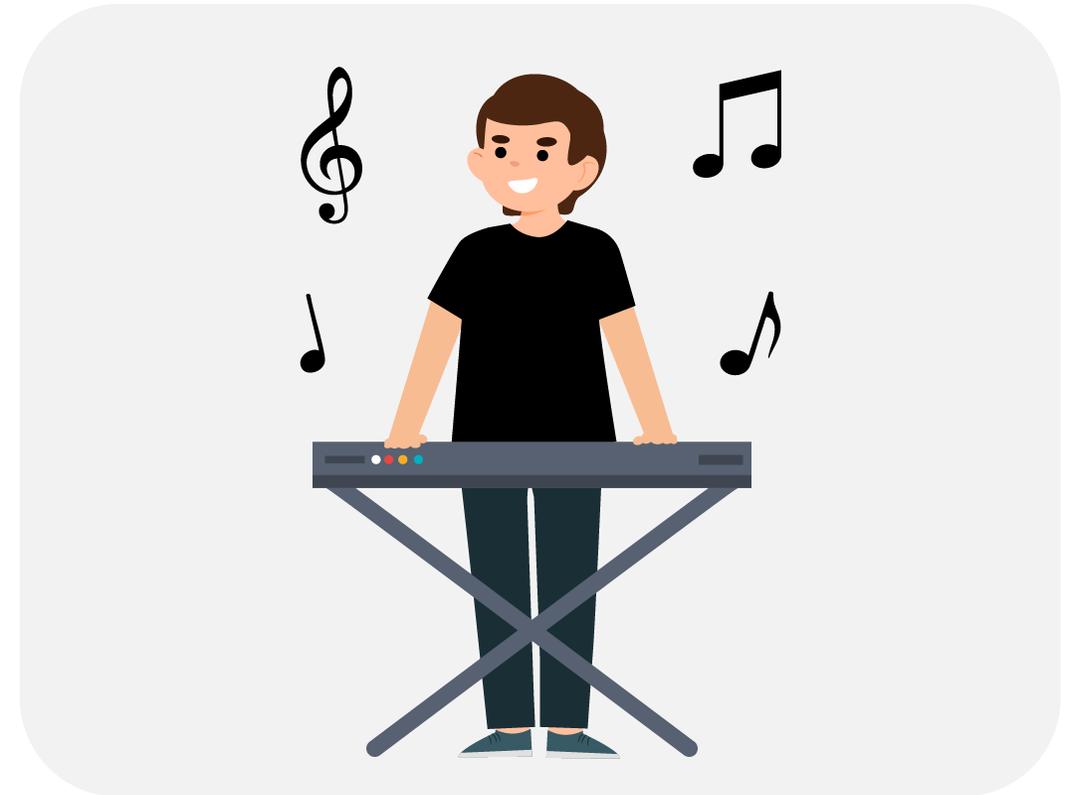
HAPPY BIRTHDAY

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## 1 Introduction

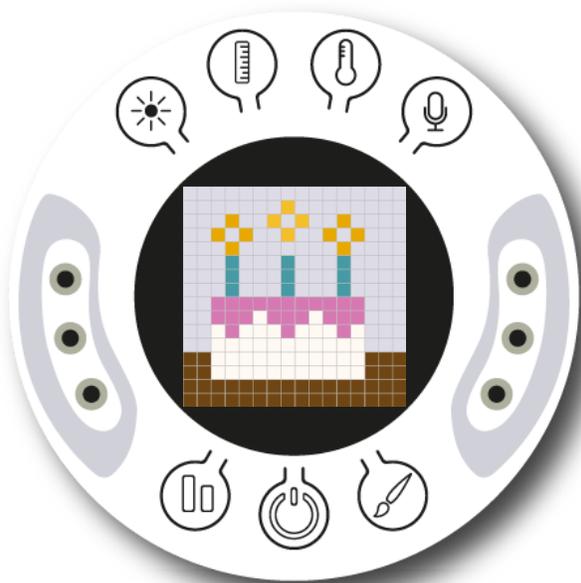
Music is everywhere: in songs, movies, and even nature. But did you know composing digitally is like building with blocks or painting with pixels? Producers mix sounds in software, adding beats and effects to create unique tracks.

Just as musicians craft melodies by writing notes on a staff, in this class you'll use Xploris to compose music digitally, arranging sounds and rhythms like pieces of a jigsaw puzzle to create your own masterpiece.



**Can we create a birthday animation with sound?**

2 Design



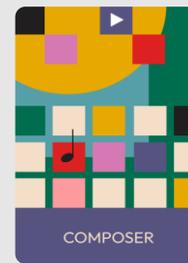
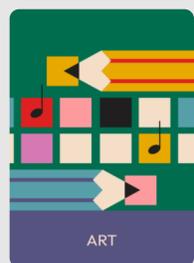
Turn on your Xploris and connect it to your computer or tablet.



Open the XploriLab software on your computer or tablet.



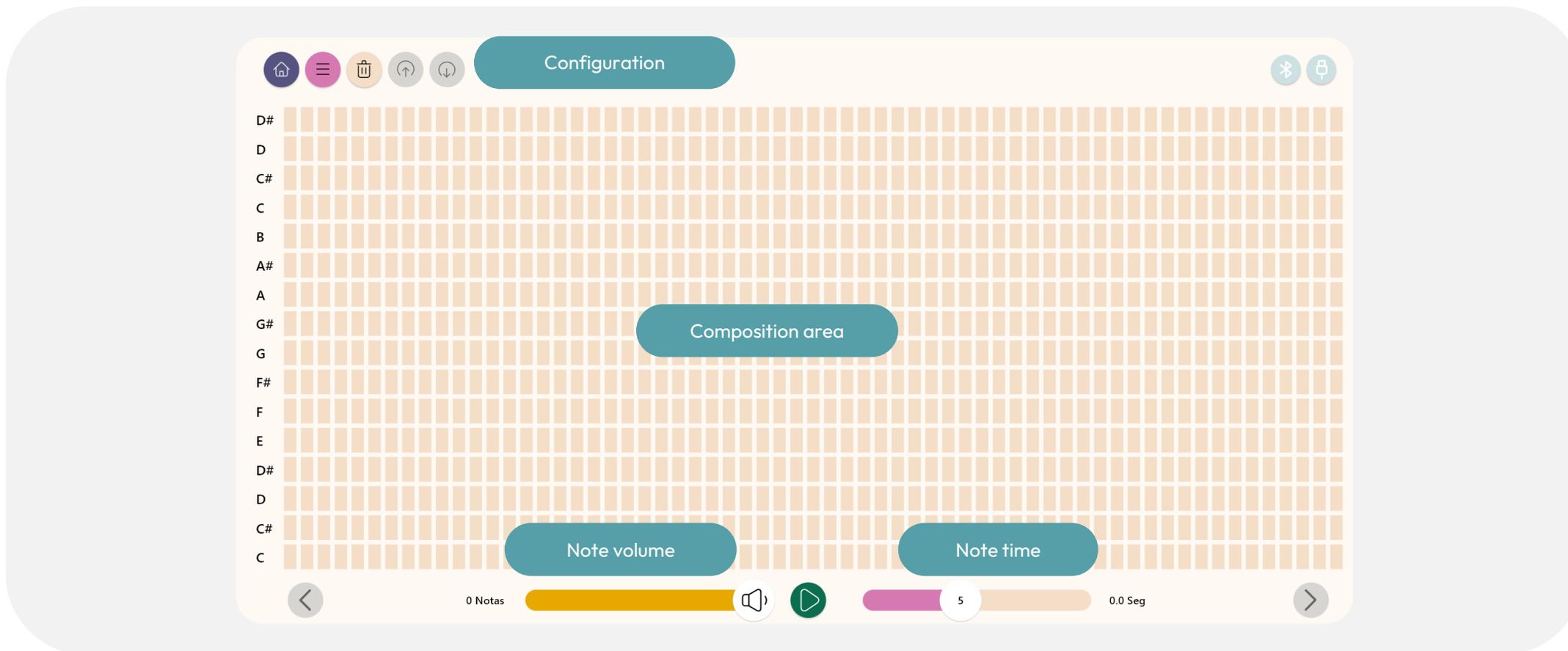
Once inside XploriLab, select the icon to connect the device via cable or bluetooth as applicable.



Go to the ART section and then to COMPOSER.

## 2 Design

Inside the main window you will find several sections with the necessary tools to make a composition.



## 2 Design

1

D#		
D		
C#		
C		
B		
A#		
A		
G#		
G		
F#		
F		
E		
D#		
D		
C#		
C		

We will start by creating the sound composition for our birthday animation. We will use blocks to build the famous “**Happy Birthday**” song. Once we have it ready, we will save it and incorporate it into our birthday cake animation.

There are many **musical notation** systems, and in Xploris, the notes on the screen follow the alphabetical or Anglo-Saxon system, where:

Do = C  
 Re = D  
 Mi = E  
 Fa = F  
 Sol = G  
 La = A  
 Si = B

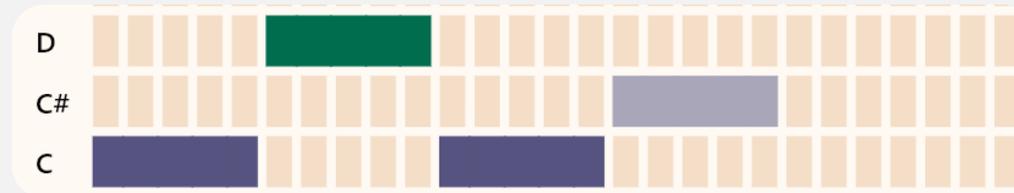
In this notation sharps are indicated with # (example: F# is F sharp).

## 2 Design

2

Before starting your composition you must first set the parameters that appear at the bottom of the screen.

- The first bar, in yellow, represents the volume of the notes. Leave this parameter **at maximum**.
- The **“play”** icon in the center is used to play and pause what you have done, for now leave it as it is.
- The second bar, in pink, corresponds to the time that each note will have, that is, how many squares it will occupy in the grid. You can set notes time from 2/16 of a second to 16/16 of a second (1 second)
- Example:



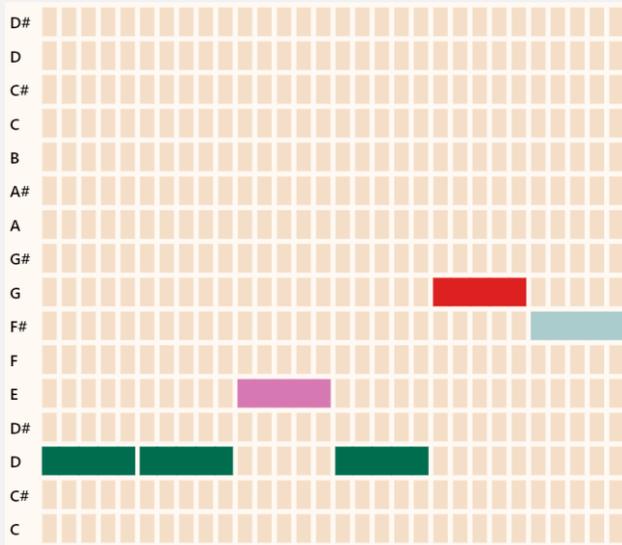
- You can play around with this number and increase or decrease the speed of your notes. For the “happy birthday” song we will leave all the notes the same at a duration of  $5/16 = 0.31$  seconds.



1 notes     5  0.31 Sec

2 Design

3



**Part one:** Check the boxes in the order shown.

**D - D - E - D - G - F#**

4



**Part two:** Continue the composition by checking the boxes to the right.

**D - D - E - D - A - G**

2 Design

5



**Part three:** Continue the composition by checking the boxes to the right.

D - D - D# - B - G - F# - E

6



**Part four:** Complete the composition by checking the boxes to the right.

C - C - B - G - A - G

2

## Design

Once you have finished your drawing, save and upload it to your Xploris screen.

Press the three-bar icon at the top of the screen.



First, save your drawing by clicking “Save” and give it a name.

This file will be useful later on, so make sure you remember the folder where it is located.

### Xploris planet

Upload   Open

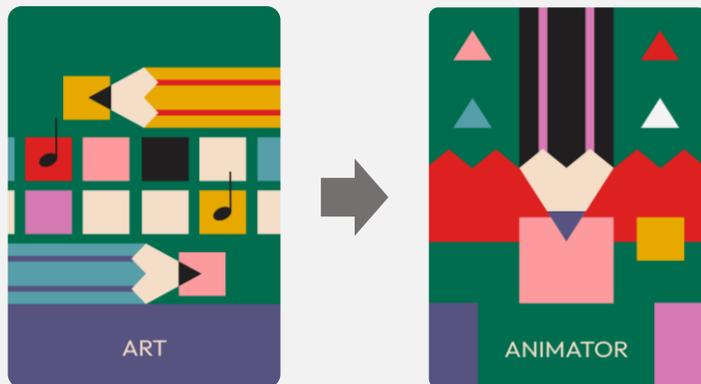
### Local

Save  Open

 Lesson Plans

## 2 Design

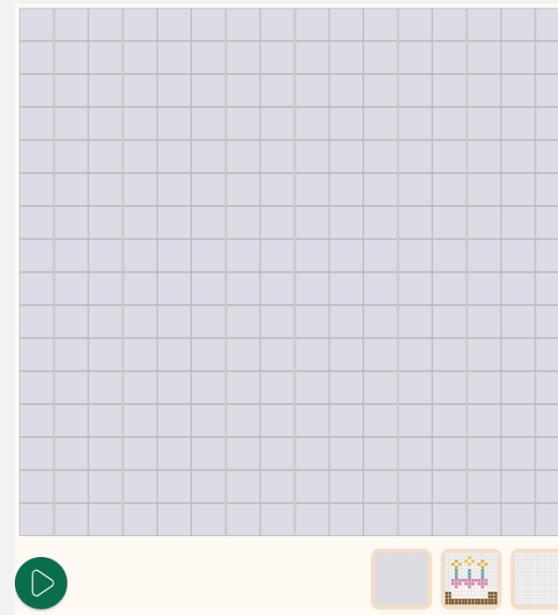
7



We already have the “Happy Birthday” song, now we have to upload it to our Xploris along with the animation of a birthday cake.

**To create this animation go back to the Arts section and enter “Animator”**

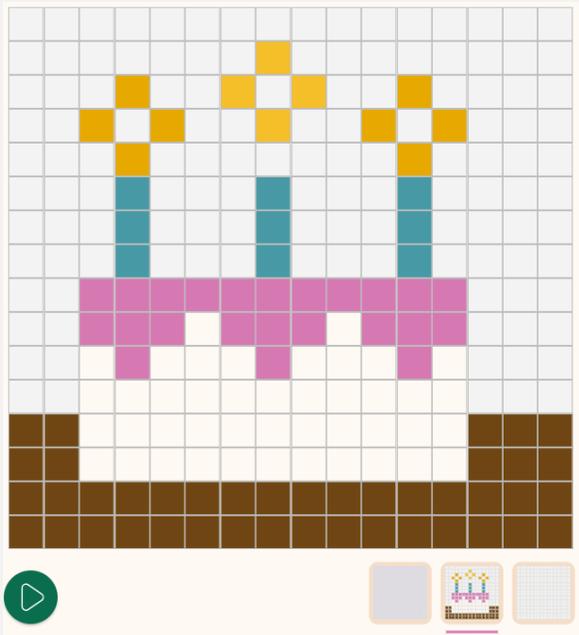
8



In the first layer, with the help of a paint bucket, paint the background in a single color.

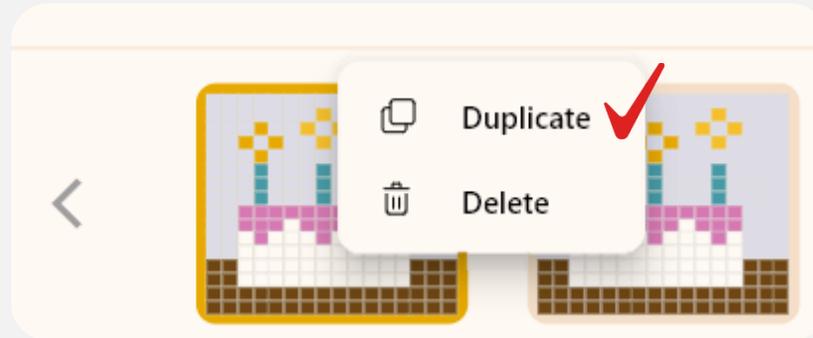
2 Design

9



In the second layer, use the pencil tool to draw a cake like the one shown in the image.

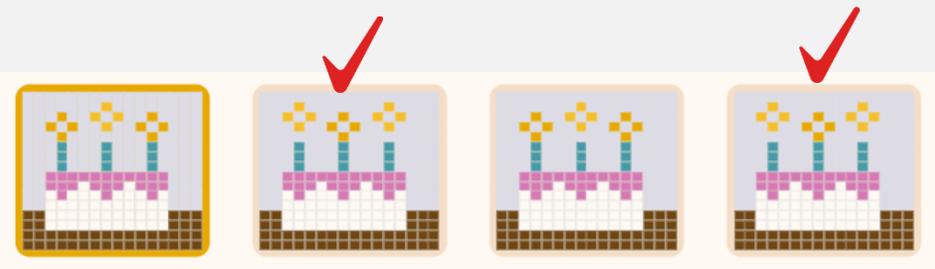
10



In the section below, right click on the drawing we made and copy it 3 more times.

2 Design

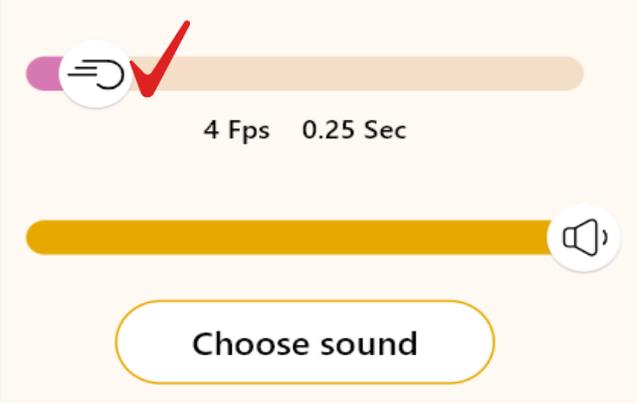
11



In frames 2 and 4 raise the fire of the side candles by one pixel and change its color to light yellow. In the center candle, lower the fire position one pixel and change its color to dark yellow.



12



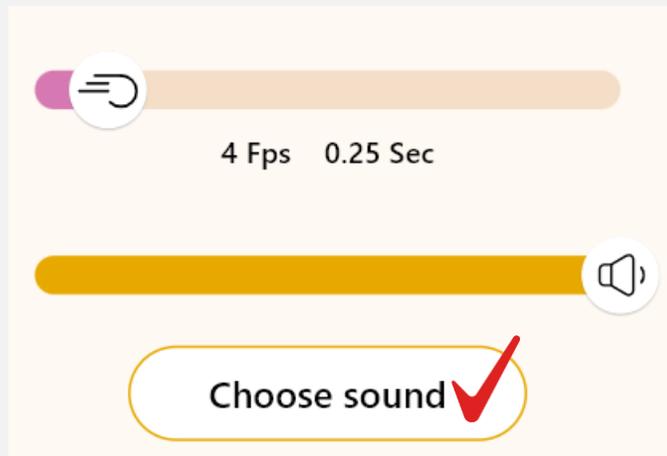
Set the animation to 4 fps to make it look fast and smooth.

You can press the green "Play" button to check that the entire animation looks good.

2

Design

13



4 Fps 0.25 Sec

Choose sound ✓

Click the “Choose sound” button and select the file we just saved with the happy birthday song.

Press the “Play” button to see the animation with the corresponding sound.

**Now you have a fun birthday cake with its own song!**

2

## Design

Once you have finished your drawing, save and upload it to your Xploris screen.

Press the three-bar icon at the top of the screen.



First, save your drawing by pressing “Save” and give it a name.

Once saved, click on the “Upload” icon at the top of the screen, wait for it to load and watch your drawing and music appear in Xploris.



### Xploris planet

Upload   Open

### Local

Save  Open

 Export animation

 Import animation

 Lesson Plans



## 3

## Questions

1

**Music**

What would happen if you changed the speed of your composition? How would it affect the mood or feeling it conveys?

2

**Technology**

How do you think technology has changed the way music is created and produced compared to the past?

3

**Let's keep experimenting!**

If you wanted to make your composition sound happier or sadder, what changes would you make to the sounds and rhythms?



4

## Activity summary



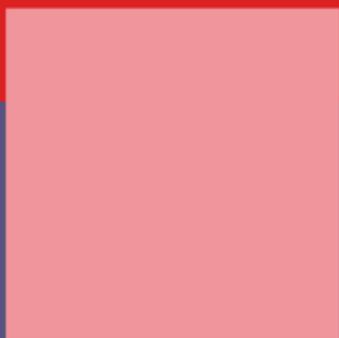
We used the Xploris software to compose a song.



We created an animation of a birthday cake.



We uploaded an animation with sound to the Xploris device.



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Happy Birthday