

# Pixel Art Online

## Pixels – 8 bit

**8 bit graphics** refers to the capability of pixels to use 8 'bits' for the number of colours that can be stored. 8 bit graphics can display 256 colours.

**Bits** are binary digits that store data, in the form of 1s or 0s. They are the smallest unit of data in a computer.

## The Challenge – 8 bit art

**Step 1** - Navigate to <https://make8bitart.com/>

We'll be using this website to create 8-bit graphics!

**Step 2** – Play the game in rounds if you only have one PC, or you can play at the same time if you have more than one. Choose a word from the bank (don't tell anyone which one you've chosen) and create it using the website!

**Step 3** – Once you've finished, hide it from the other player.

**Step 4** – Create a set of instructions for the other player to follow and use; the result should be the image you've created! You can only refer to colours using their hex values.

**Step 5** – If they guess correctly, you both get a point! Try to get as many points as possible!

**Extension:** Add more words to the bank!

## What You'll Need

Access to the internet

## Why are we doing this?

8 bit graphics paved the way for modern video games!

You'll also be creating an algorithm!

## 8-bit Algorithm (create your own space using this as an example!)

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

## Bank

Tree

Mario

Hammer

House

Luigi

Candle

Sun

Nintendo Switch

Boat

Dog

Fork

Globe

Cat

Pikachu

Windmill

Rabbit

Star

Sonic

Fire

Cherry blossom tree

Scarf

Sunflower

Toadstool

Xbox Controller