

Color by ASCII Code

Introduction

Welcome to this engaging St Patrick's Day STEM activity! In this festive challenge, you will dive into the world of ASCII Binary Code – a fundamental aspect of computer science and technology.

What is ASCII Binary Code?

ASCII, or the 'American Standard Code for Information Interchange,' is a character encoding standard used in computers. It assigns numerical values (codes) to represent letters, forming the foundation for digital communication and data storage.

ASCII Binary Code Table

Now, let us apply this concept to our St Patrick's Day-themed task. Your mission is to decode the binary values from the ASCII Binary Code table below and use them to bring a vibrant pot of shamrocks and rainbow illustration to life.

**ASCII Binary Code

Letter	Binary Code
A	01000001
B	01000010
C	01000011
D	01000101
E	01000101
F	01000110
G	01000111
H	01001000
I	01001001
J	01001010
K	01001011
L	01001100
M	01001101

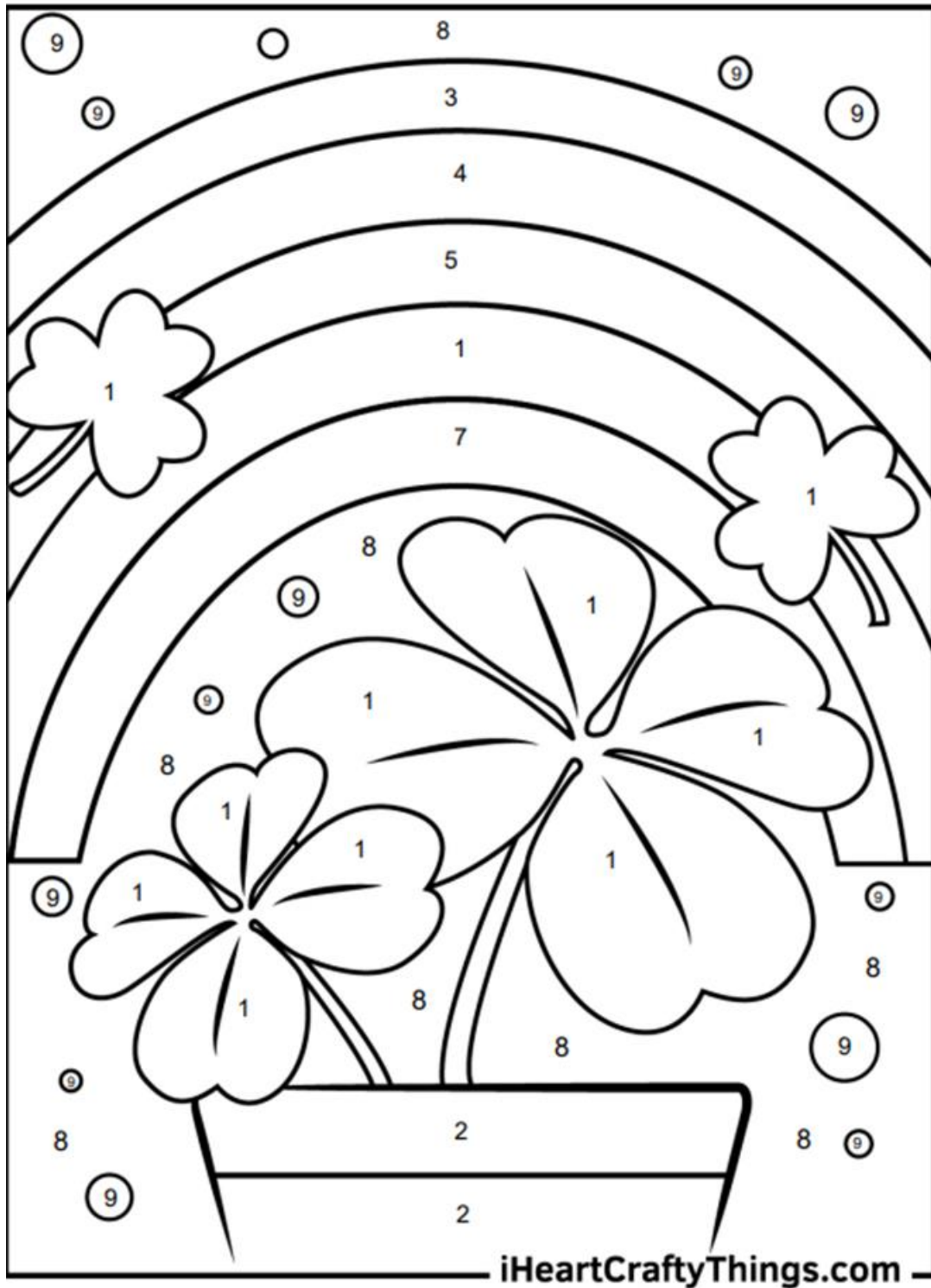
Letter	Binary Code
N	01001110
O	01001111
P	01010000
Q	01010001
R	01010010
S	01010011
T	01010100
U	01010101
V	01010110
W	01010111
X	01011000
Y	01011001
Z	01011010

Instructions

1. Use the ASCII Binary Code table on page 1 to find the missing letters in the chart below and reveal the colors you need for pot of shamrocks and rainbow on page 3.

1	<u>01000111</u>	<u>01010010</u>	<u>01000101</u>	<u>01000101</u>	<u>01001110</u>	
2	<u>01000010</u>	<u>01010010</u>	<u>01001111</u>	<u>01010111</u>	<u>01001110</u>	
3	<u>01010010</u>	<u>01000101</u>	<u>01000101</u>			
4	<u>01001111</u>	<u>01010010</u>	<u>01000001</u>	<u>01001110</u>	<u>01000111</u>	<u>01000101</u>
5	<u>01011001</u>	<u>01000101</u>	<u>01001100</u>	<u>01001100</u>	<u>01001111</u>	<u>01010111</u>
6	<u>01010000</u>	<u>01010101</u>	<u>01010010</u>	<u>01010000</u>	<u>01001100</u>	<u>01000101</u>
7	<u>01000010</u>	<u>01001100</u>	<u>01010101</u>	<u>01000101</u>		
8	<u>01010111</u>	<u>01001000</u>	<u>01001001</u>	<u>01010100</u>	<u>01000101</u>	

2. Color in the illustration below using the colors you decoded on page 2!



This color page is credited to [iHeart Crafty Things](#).

This activity is credited to [Left Brain Craft Brain](#).