

# Color by ASCII Code

## Introduction

Welcome to this engaging holiday STEM activity! In this festive challenge, you'll delve 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's apply this concept to our holiday-themed task. Your mission is to decode the binary values from the ASCII Binary Code table below and use them to bring a vibrant holiday tree illustration to life.

## \*\*ASCII Binary Code

Letter	Binary Code
A	01000001
B	01000010
C	01000011
D	01000100
E	01000101
F	01000110
G	01000111
H	01001000
I	01001001
J	01001010
K	01001011
L	01001100
M	01001101

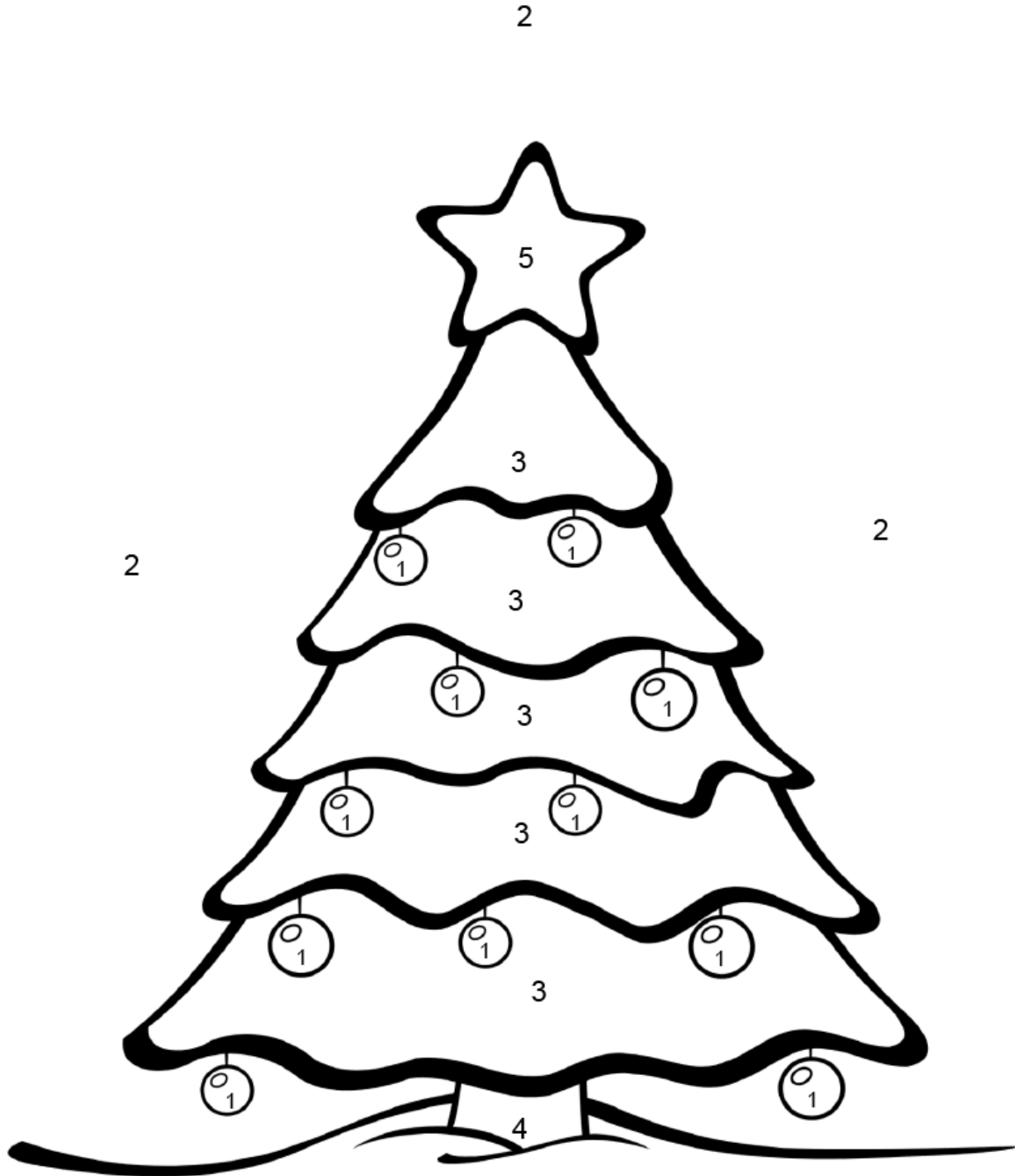
Letter	Binary Code
N	01001110
O	01001111
P	01010000
Q	01010001
R	01010010
S	01010011
T	01010100
U	01010101
V	01010110
W	01010111
X	01011000
Y	01011001
Z	01011010

### 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 the Christmas tree on page 3.

1	<b>01010010</b>	<b>01000101</b>	<b>01000100</b>		
2	<b>01000010</b>	<b>01001100</b>	<b>01010101</b>	<b>01000101</b>	
3	<b>01000111</b>	<b>01010010</b>	<b>01000101</b>	<b>01000101</b>	<b>01001110</b>
4	<b>01000010</b>	<b>01010010</b>	<b>01001111</b>	<b>1010111</b>	<b>1001110</b>
5	<b>1011001</b>	<b>1000101</b>	<b>1001100</b>	<b>1001100</b>	<b>1001111</b> <b>1010111</b>

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



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