

CHAPTER 9 **Project Recording Sheet**
Probability

Code Breaking

You might think that only spies worry about codes but in this modern world that just isn't true any more. Today, anyone who sends electronic information wants it to be safe. Encrypting a code is the way to do it. Cryptographers are the people who create codes. If you like discovering and creating patterns then cryptography might be for you.

Use the chart to figure out the message below.

100100110101111000001101001110010111001001
 10001001000100100100110011101000111

Letter	Code	Letter	Code
A	1000001	N	1001110
B	1000010	O	1001111
C	1000011	P	1010000
D	1000100	Q	1010001
E	1000101	R	1010010
F	1000110	S	1010011
G	1000111	T	1010100
H	1001000	U	1010101
I	1001001	V	1010110
J	1001010	W	1010111
K	1001011	X	1011000
L	1001100	Y	1011001
M	1001101	Z	1011010

What is the message? _____

Create a message of your own using the code above.
 Exchange messages with your classmates.

Look at the code. What patterns do you see? _____
 What other patterns might be used to create a code
 using 1's and 0's? _____

Develop a code of your own. Write a message. See if a
 classmate can decipher the message using your code.

Research: The code above uses the binary system of 1's and 0's.
 What other uses for the binary system can you discover?