



1. Using the Decoder, try to decode this (tricky!!) code:

```
1111110000111110000111111
1000111001101011001110001
0111000100001000010001110
0010001010100011111110001
1111110001111111001010001
1111110001111101000111111
```

2. In the Methodology section called "Mapping the Cosmos" you watched the skies divided into squares. The squares were then divided into 8 rows and 8 columns. Can you see why it would be difficult to decode if you didn't know that the code was from an 8 by 8 grid? In our experiments, we used a 5 by 5 grid. You may have noticed a string of binary digits at the end of The Challenge. If you assume that the code uses a 5 by 5 grid, can you decode it?
3. Are pictographs like hieroglyphics different than binary codes? How?
4. Think of a word that describes a way that you use codes in your life. Now code that word in the simulation. Give the code to one of your classmates and see if your classmate can figure it out. Try to figure out the code they coded.
5. In The Challenge, you saw (and heard) a telegraph sending a code. The code being used was Morse Code. If you like studying about codes, try to find out about Morse Code and then see if you can decode the coded message you heard.





The Codebreaker

Code 1

The Codebreaker

Code 2

The Codebreaker

Code 3



The Codebreaker

Grids

