**Letter frequency analysis project**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date Set** | **Coding Project** | Use frequency analysis to crack the code and research which two literary works it relates to:* Analyse the symbol frequency in a tally chart
* Apply the letter frequency information
* Substitute the symbols for letters
* Repeat until you have a readable text
* Find the two works which this relates to.
 | Date due  |

Your task is to crack the following code using probability. The most frequently used letter in the English language is E, so there is a strong probability that the most occurring symbol is an E. Use the bullet points above to structure your work.

**Helpful resource**

<http://simonsingh.net/The_Black_Chamber/crackingsubstitution.html>

**Solution**

**Literary work 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Author: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Literary work 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Author: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Letter Frequencies in English**

. , .

". ," , "?"

. —.

"," .

. .

"?" .

", . , !"

.

", , . ; ."

"?"

". . !"

"? ?"

"! ."

"? ? ."

"! , ! , ."