Challenge 1: Work in pairs to find out what your DNA tells us about you

Height: ____________ cm  Shoe Size: __________  Eye colour: ____________

The most common eye colour in the class is: ________________

Challenge 2: Match the number to the correct word

1 100 1000 1,000,000 1,000,000,000 1,000,000,000,000  
Billion Thousand Million Trillion One Thousand

Write the number 37.5 trillion in full: ________________________________

Challenge 3: Draw a cell and label the nucleus and the DNA
Challenge 4: Use the keys to break the code.

Strand 1
G A T A T G G G T G A T A T A C G A

Strand 2

Use Key 1:

Use Key 2:

What are the words that you have uncovered in the code? You will need to work with others in the class as you will only have one of the answers.

Treatment 1 ______________ Treatment 2 ______________ Treatment 3 ______________

How many of each treatment will the doctors need?

Number _____________ Number _____________ Number _____________

Can you draw this number of each treatment as a graph?

Title:

<table>
<thead>
<tr>
<th>Treatment 1</th>
<th>Treatment 2</th>
<th>Treatment 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-G</td>
<td>A-T</td>
<td>C-G U A-C</td>
</tr>
<tr>
<td>G-C</td>
<td>T-A-T</td>
<td>T-A-T</td>
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<tr>
<td>T-A-T</td>
<td>G-C-G</td>
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</table>

KEY 1: A-T C-G
KEY 2: C-G U A-C