



# DN Detectives



Name: \_\_\_\_\_

**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 3: Draw a cell and label the nucleus and the DNA**

**Challenge 2: Match the number to the correct word**

1

Billion

100

Thousand

1000

Million

1,000,000

Trillion

1,000,000,000

One

1,000,000,000,000

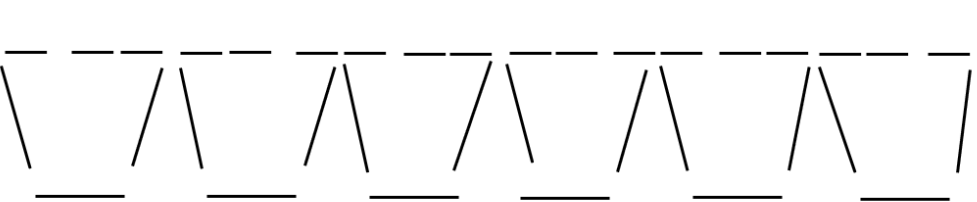
Thousand

Write the number 37.5 trillion in full: \_\_\_\_\_

Challenge 4: Use the keys to break the code.

Strand 1 

Strand 2 

Use Key 1: 

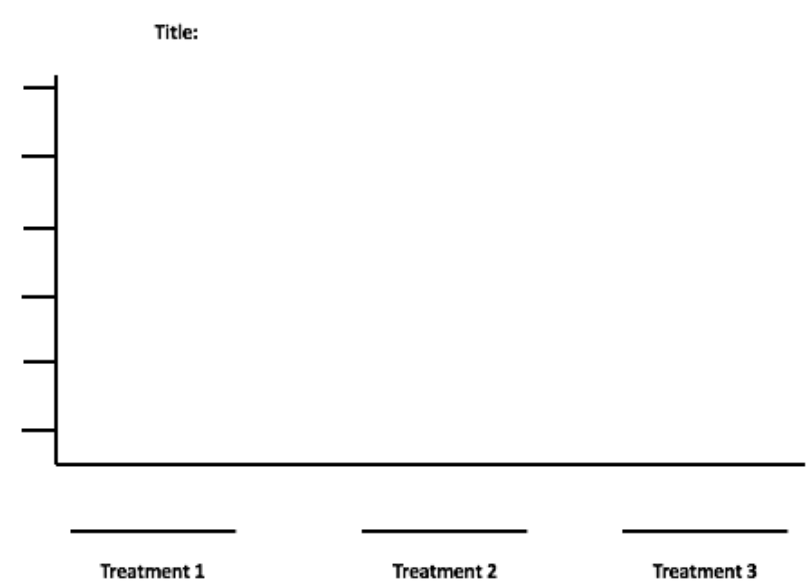
What are the words that you have uncovered in the code? You will need to work with others in the class as you will only have one of the answers.

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 graphp



|                   |                       |         |         |         |         |         |
|-------------------|-----------------------|---------|---------|---------|---------|---------|
| <b>KEY 1:</b> A-T | <b>KEY 2:</b> CGT - A | TCG - F | TAG - K | CTA - P | TAC - U | ACG - Z |
| C-G               | AGT - B               | CCG - G | TAT - L | TTG - Q | GAG - V |         |
|                   | GAT - C               | TTA - H | CGC - M | CCA - R | CAT - W |         |
|                   | ATA - D               | TGC - I | GCG - N | AAC - S | AAG - X |         |
|                   | GCT - E               | TGA - J | GGT - O | CAC - T | GCC - Y |         |