<u>Year 3 Platinum Badge</u> - Complete both tasks and hand this back to your class teacher.

<u>Task 1</u>

Roll these Dice

You need:
three dice - two **red** and one **green**.

What you have to do:
Roll the dice to get three numbers, then add the numbers on the **red** dice and subtract the number on the **green** die.

· What are all the different possibilities that could come up?
· What are the final answers by doing the addition and subtraction each time?
· Is there a good way of making sure you find all the possibilities?
· What is the biggest number you can get? … and the smallest?
· How will you record what you've found out?

Two dice are RED and one is GREEN.

<u>If you don't have three dice,</u> use the printed template x 3, cut it out and colour in the relevant colours.

<u>Task 2</u>

Matchsticks

Imagine a matchstick.

How many more are needed to make a square?
How many more need adding to make yet another square along side it?
Carry on adding more squares …

How many matches have you added?
How many matches are there when you have made 10 squares in the row?
20 squares? 50 squares?