





# Number Tower

This tower is made from four regular 1-6 dice, stacked on top of each other.

Each die shows a four digit number, reading around the side faces. In the photograph, the green dice shows 3146, 1463, 4631 or 6314.



## National Curriculum 2014: Years 3 & 4

- Recall multiplication and division facts for multiplication tables to  $12 \times 12$
- Add numbers with up to 4 digits using the formal written methods of columnar addition

## Lets start...

- How do you know which numbers are showing on the back faces of the green die?
- What are the smallest 4-digit numbers that can be seen around the edges of the yellow, red and blue dice?
- What is their sum?

## Hungry for more?

The bottom face of the green die is in direct contact with the top face of the yellow die. What is the product of these two faces? Multiply together all of the 7 hidden faces – what answer do you get?

## Still hungry?

1432 and 3553 can be seen down the sides of the tower. What numbers do the other two sides show? Is it possible to rearrange the dice so that all four of these numbers are even? Odd? Multiples of 3?