**Number activity**

Nice and Nasty (from Nrich)

You will need:

* A dice
* Some paper and a pencil
* 2 players (minimum)

Each player should draw a set of boxes like this:

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

Game 1

Take turns to roll the dice and decide which of the 4 boxes to fill. Do this 4 times each until all the boxes are full.

Whoever has the larger 4 digit number wins.

You may want to play until a player reaches 10 points / for a fixed amount of time or best out of 3.

Game 2

As above, but whoever has the smaller 4 digit number wins.

Game 3 (adapted from the game above)

Each player draw a set of boxes like this

 X

Take turns to roll the dice and decide which of the 3 boxes to fill. Do this 3 times each until all the boxes are full. Complete the multiplication using the partitioning strategy we have learnt this week. Whoever has the highest product (total) wins.

Can you work out how to make the largest product?