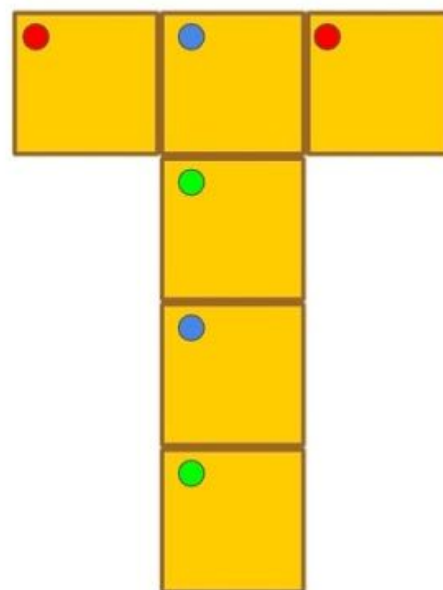# Dice Net Challenge

This week we are setting you a series of challenges based around the net of a cube. Read each challenge carefully as the task and the net change each time! You could cut out and make each net to help you tackle the challenges.
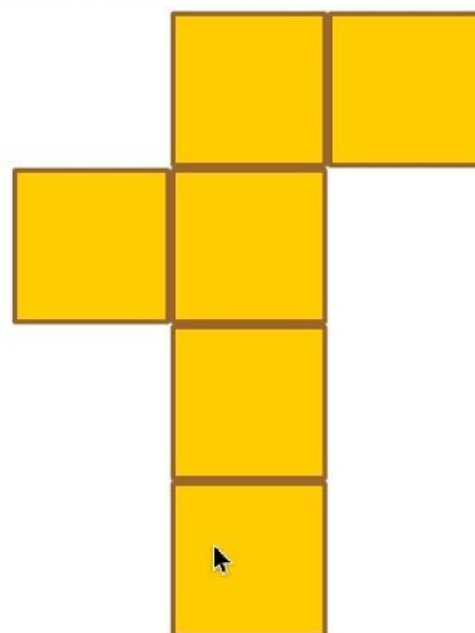
Level 1:

Place the numbers 1-6 on the yellow net so that when it is folded to form a cube, numbers on opposite faces add to 7.

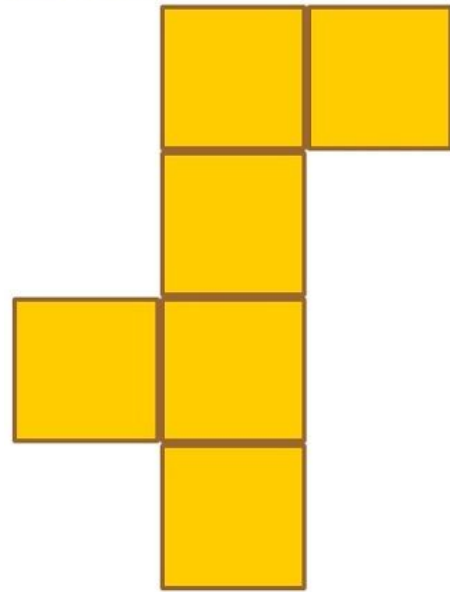Hint: We have marked which faces will be opposite to one another for this challenge!

Level 2:

Place the numbers 1-6 on the yellow net so that when it is folded to form a cube, numbers on opposite faces add up to prime numbers (but not 7!).
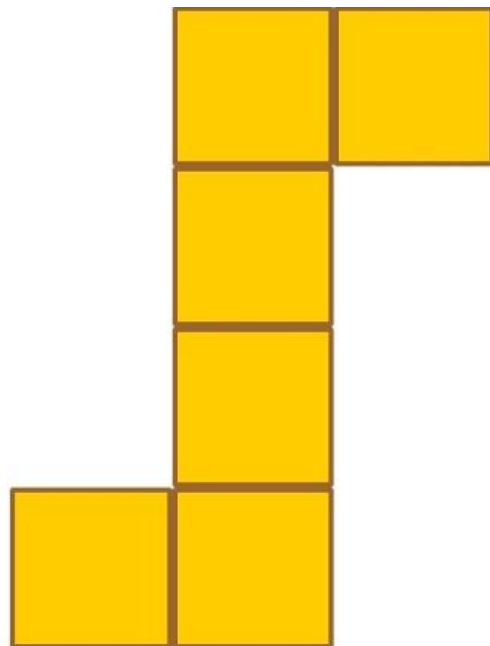
Level 3:

Place the numbers 1-6 on the yellow net so that when it is folded to form a cube, numbers on opposite faces multiply together to give an even number.
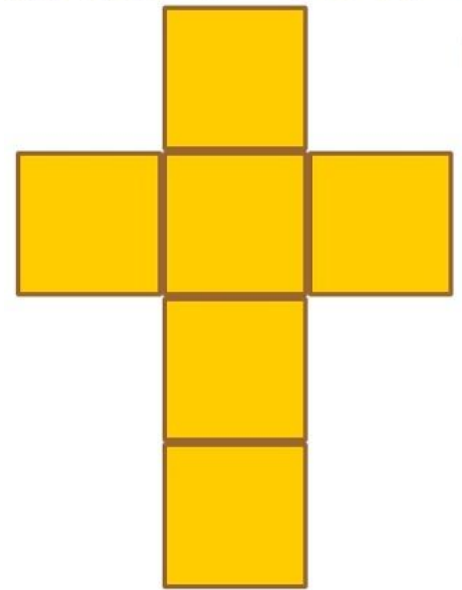

Level 4:

Place the numbers 1-6 on the yellow net so that when it is folded to form a cube, numbers on opposite faces differ by three.

Level 5:

Place the numbers 1-6 on the yellow net so that when it is folded to form a cube, <u>numbers on opposite faces add together to make odd numbers.</u>

There is an interactive tool that could help at https://www.transum.org/software/SW/Starter_of_the_day/Students/Hot/Dice_Numbers.asp as well as further challenges if you want them!