Regina Bissai Nzenza

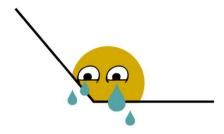
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Meal Plan **#108** 60 mins

Starters 5-10 mins

Why are obtuse angles so upset?



Beacuse they're never right.

STEMettes

Pop: Stemillions playlist on Spotify: bit.ly/stemillionsplaylist

Discuss:

- ★ What do you think of Regina's subjects?
- ★ What do you think Computer Science is?

Desserts 5 min

Mains 20 mins - choose ONE only

MAKE...... 20 mins

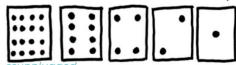
Ingredients: Coloured sweets, pen & paper.

Probability Game: Probability is an important topic in computer science. Many algorithms rely on probability. In this activity we will look at probability using sweets. Grab a bag of coloured sweets, like Skittles or Smarties. Count the number of each coloured sweet in the pack. Put all the sweets back in the bag, give them a shake, and pull out one sweet, what colour is the sweet? (You can eat the sweet.) Now what are the probabilities of picking out each coloured sweet? Keep going until you've eaten your whole pack of sweets - yay!

EXPLORE...... 20 mins

Ingredients: Pens and paper.

Binary Cards: Binary maths is an essential type of maths for computer science. In this activity we will explore binary maths to explain how data in computers is stored and transmitted as a series of zeros and ones. For this activity, you will need to cut up a piece of paper in to 5 rectangles, on each rectangle, draw 1, 2, 4, 8 or 16 dots on the card leaving the back blank, these are our binary cards.



Lay the cards out as shown above. We can use these cards to make numbers by turning some of them face down and adding up the dots that are showing. For example, if we wanted to make 6, we would turn over all the cards but the 4 & 2 dots. Now try to make 15 and 21. When a binary number card is not showing, it is represented by a zero. When it is showing, it is represented by a one. This is the binary number system. So 9 would be represented by 01001. Can you work out what 17 would be?