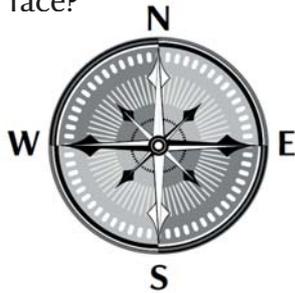## Numeracy Trail

Start your trail at the front of the house.

Walk past the front of the house and turn right into the gravelled courtyard. This is the west side of the house, what direction does the front door face?

Now walk back around to the front of the house.

It is estimated that 10 cars enter the car park every 15 minutes. If this is right, how many cars will enter in 1 hour?

The number of cars doubles in the school holidays. How many cars would there be every hour in the holidays?

Go through the east gate to get to the back of the house.

Find the stone crest on the back of the house and look up at the windows on either side of it. Draw the shape of those windows.

The Sundial

Now walk over to the sundial and walk around the gravel path by its base. What mathematical shape makes up this base?

Use your map to follow the path to the large Cedar tree - it has the thickest trunk of all the trees here. This tree is about 250 years old.

In which century was it planted?

Follow the path around to the Italian Garden

Can you find this view?

Stand and face the Orangery and turn clockwise until you are facing the Lion's head fountain.

How many degrees have you turned?

Explore the Italian Garden and see if you can answer these questions.

How many brown seats can you see?

How many dogs' heads are there on each seat?

How many dogs' heads in total are there in the garden?

Look at this picture. How many of these pineapple statues can you find?
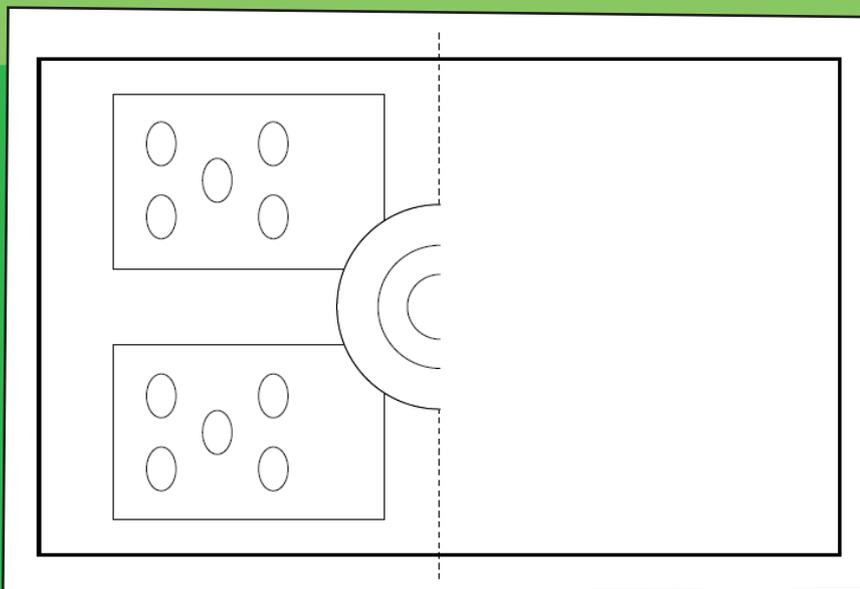
Some were difficult to spot, why?

What do you think happened to them?

The Orangery was first built in 1820. It was then rebuilt in 1993. How many years are there between 1820 and 1993?

Now stand at the bottom of the steps of the Orangery and look up at balustrade (stone railings) on the roof. Estimate how many people of your height would be needed to reach the top of the Orangery?

If we say that you are about 1m tall, estimate the Orangery's height in metres.

Complete this simple plan of the Italian garden to show its symmetry.

The dashed line shows a line of symmetry. What other lines of symmetry are there?

Now walk around to the back of the Orangery

The grass here has been divided into squares. How many squares are there?

If one of these squares was full of flowers, how would you write this as a fraction of the whole?

Now use the code to work out these 3 words that are connected to Belton House

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

2, 18, 15, 23, 14, 12, 15, 23

7, 18, 5, 25, 8, 15, 21, 14, 4

13, 15, 15, 14, 4, 9, 1, 12

This table shows the yearly wages of some of the servants that worked at Belton House in Victorian times.

Shillings are an old unit of currency. There are 20 Shillings in a Pound and 12 Pence in a Shilling.

Name	Job Title	£ (Pounds)	s (Shillings)	p (Pence)
Margaret Bach	Housekeeper	17	10	0
Jane Vaughn	Kitchen Servant	3	5	6
Sarah Dawson	Housemaid	8	10	0
John Ingram	Head Gardener	17	0	0

How much more does a Housemaid earn than a Kitchen Servant?

How much would the Housekeeper earn in 5 years?

To work out approximately how much they would earn in today's money, we need to multiply their wage by 50.

How much would a Head Gardener earn a year in today's money?

Well done, you have completed the trail!