Make a chain

Problem sheet

What are the smallest blue numbers that will make a complete chain?

What are the largest blue numbers that will make a complete chain?

Can you make a chain containing the day of the month on which you were born?

What numbers cannot appear in any chain?

What is the biggest difference possible between two adjacent blue numbers?

What is the largest and the smallest possible *range* of a complete chain? (*Range* means the difference between the smallest and largest values.)

Investigate some similar challenges of your own.