

Year 5/6 Week 1

Noticing numbers

Number game

2 players.

Start with 21 objects.

Take turns to remove either 1, 2 or 3 each time.

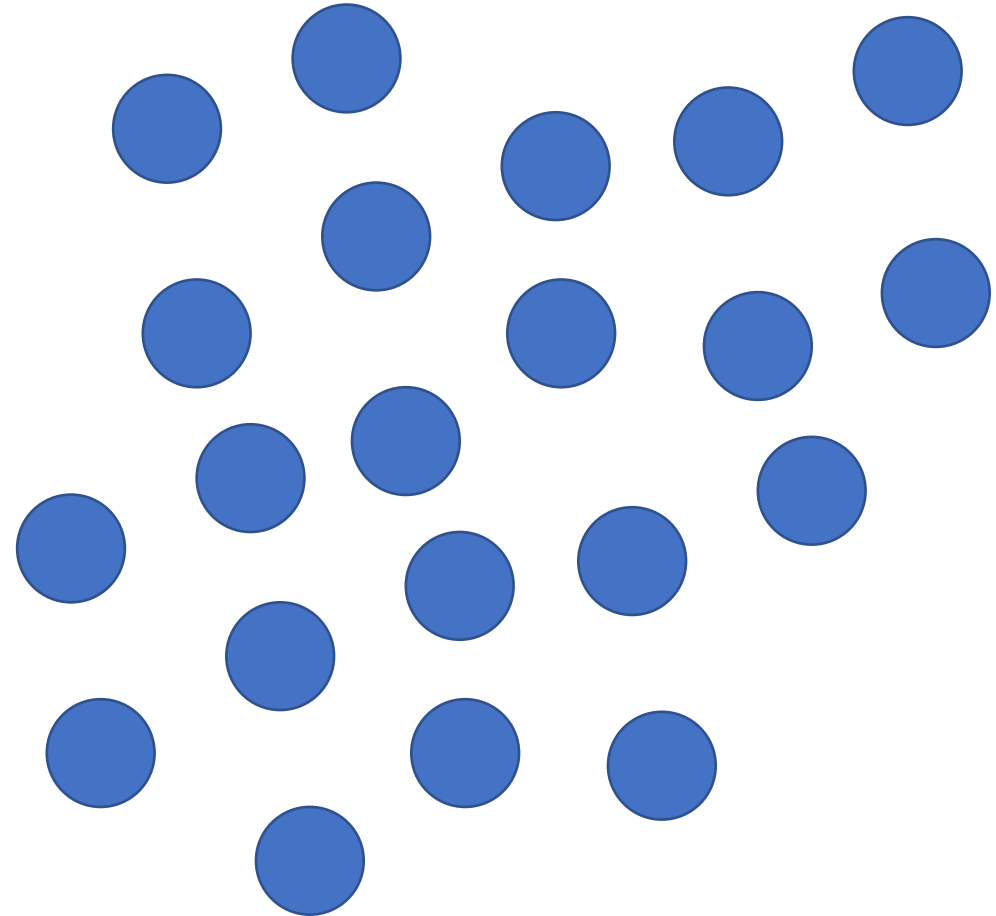
The **winner** is the one who takes the last object.

Invent your own rules:

What if you lose if you take the last object?

Start with a different number.

Change how many you can remove each time.



Infinity

Do you have a favourite or lucky number?

Why is it your favourite?

What do you like about it?

What is the biggest number you know?

Investigate these numbers:

Million, billion, trillion

Googol

Googolplex

If you count one number every 1 second, how long will it take to count to 1 million?

What about 1 billion???

Is there such a thing as infinity?

What about negative infinity?

What is the smallest possible number?

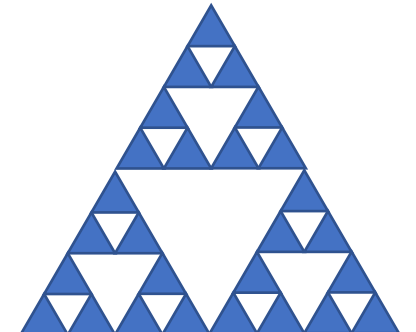
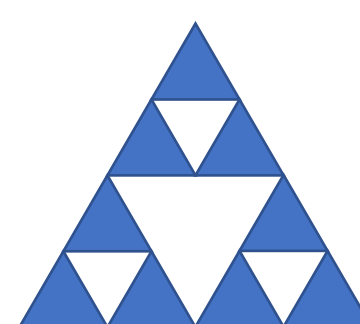
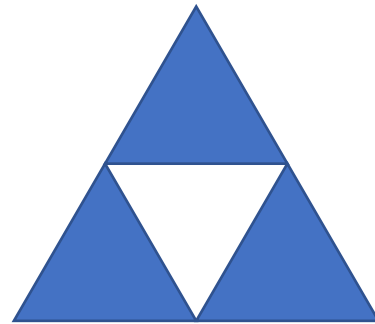
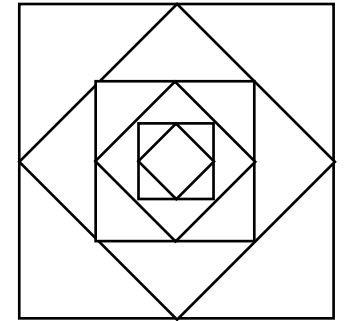
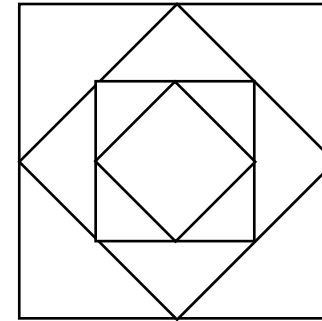
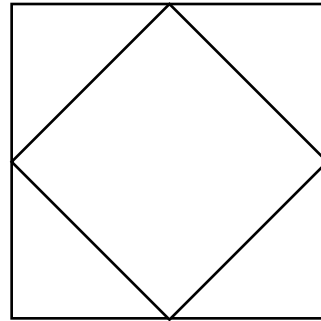
Patterns

Draw patterns like these.

Can you see how they grow/shrink?

These patterns go on forever!

Make up your own!



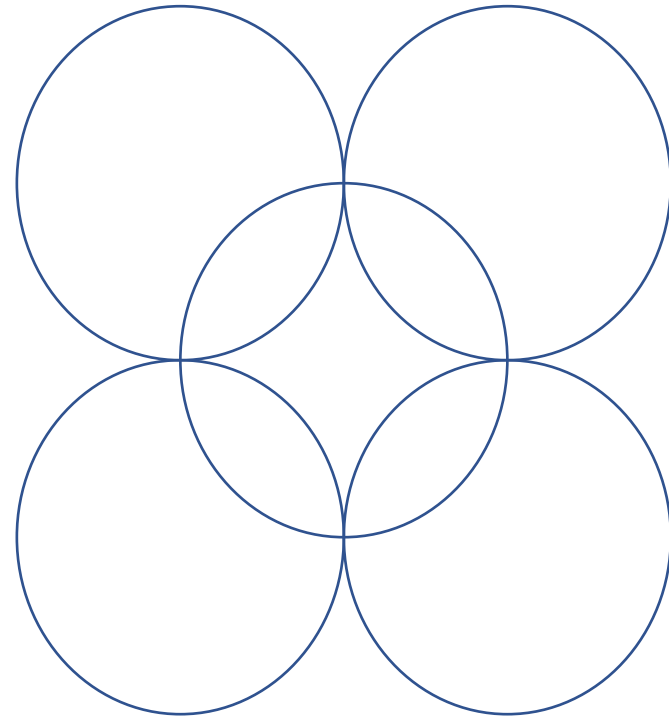
Drawing game

Draw a pattern.

Colour each section so that each section is a different colour from the ones that join it.

(The same colour can touch at corners)

Can you invent a pattern which needs more than 4 different colours?



Learning to Learn

Play a memory game

For 2 players.

Player A

Make a pattern of up to 10 different objects

Show it for 5 seconds, then cover it.

Player B

Can you remember all the things you saw?

Practice memory skills

Try one of these:

Learn a song off by heart.

Invent a small dance routine to learn.

Learn the names and capital cities of 20 countries.