



# Foundation Mathematics Greenvale Primary School

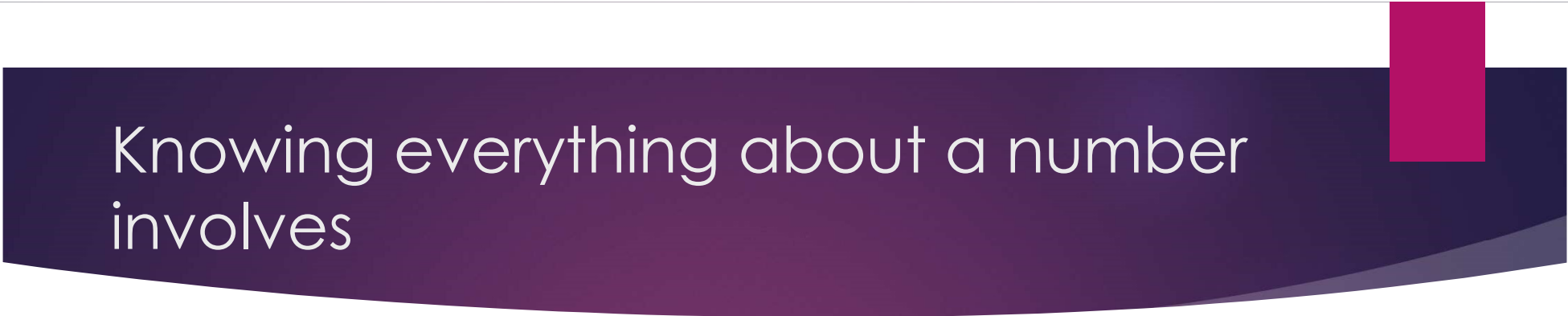


# Focus on mathematics in Foundation

In the first year of school, students develop a sense of number, order, sequence, pattern and position in relation to familiar settings.

**Typically students will:**

- Connect numbers, their names and quantities up to 20
- Count numbers in sequences up to 20, continue patterns and compare lengths of objects
- Use materials to model problems, sort objects and discuss answers
- Group and sort shapes and objects
- Connect events with the days of the week
- Develop an understanding of location words, such as *above*, *outside*, *left*



# Knowing everything about a number involves

Recognising the digits

Recognising its value

Writing the digits

Making

Ordering

Learning to count



## Other important concepts

Conservation of number

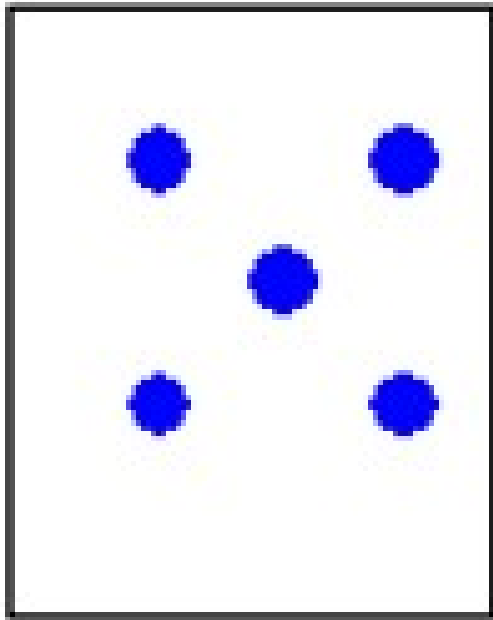
Trust the count

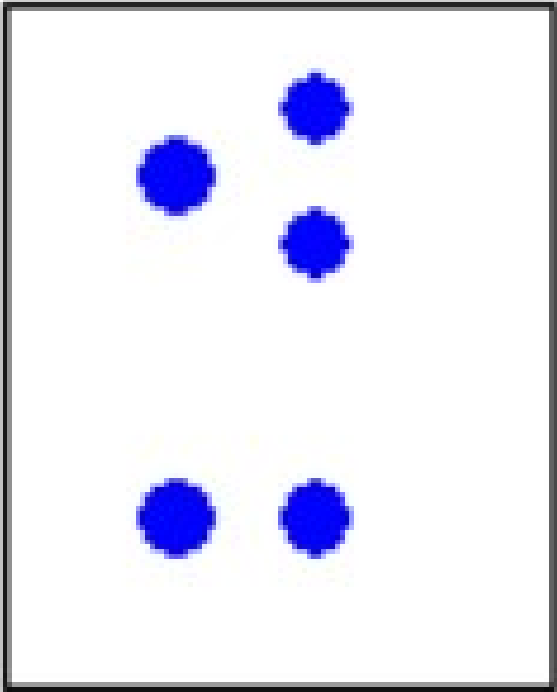
Subitising

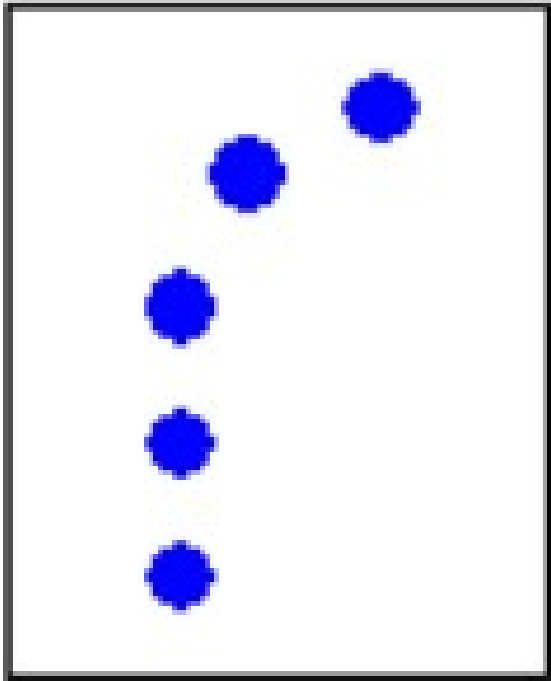
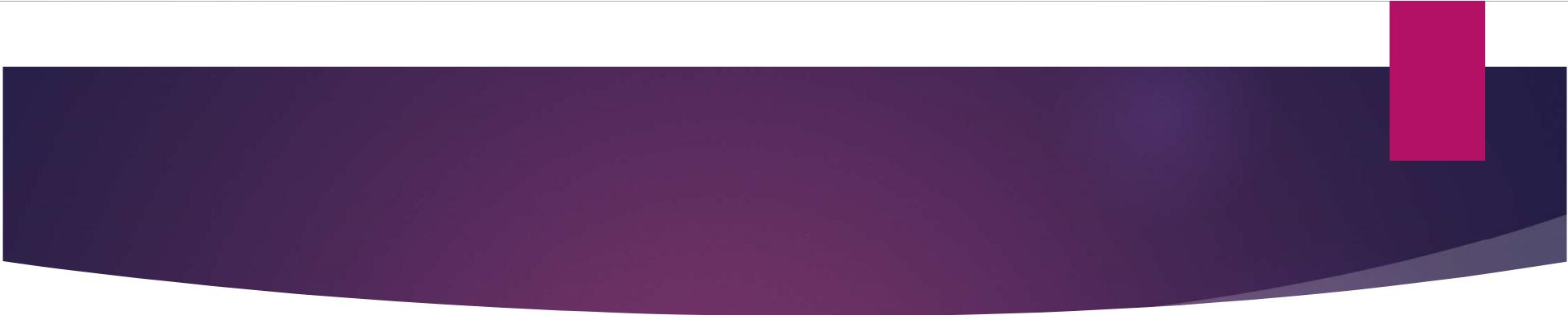
Practice & memorisation

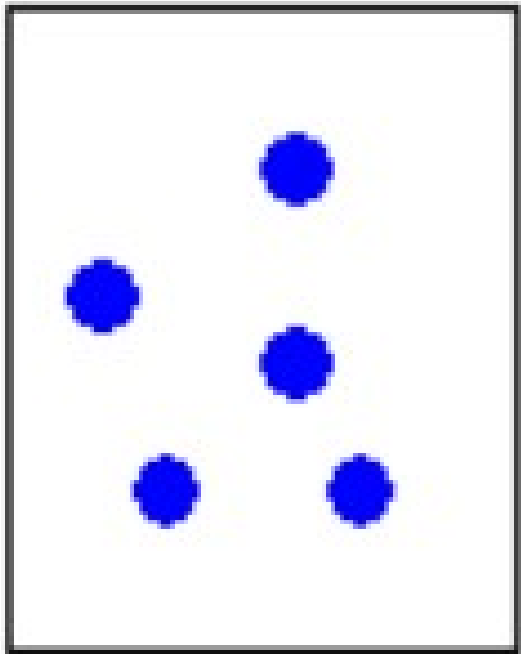
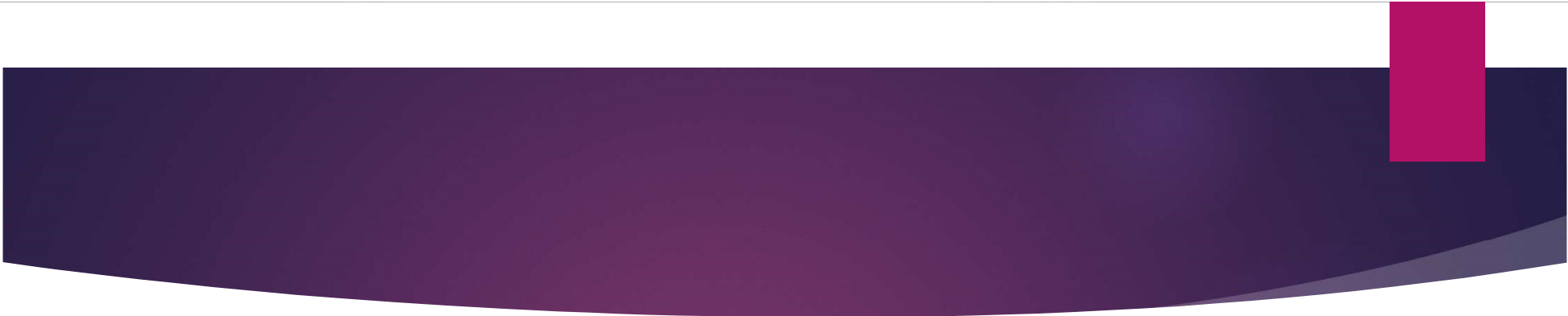
Perception of subgroups

Subitising- how do you see this?

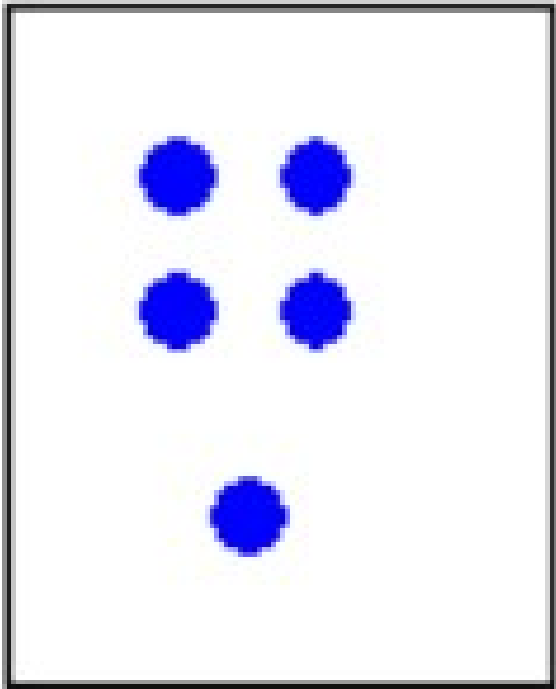
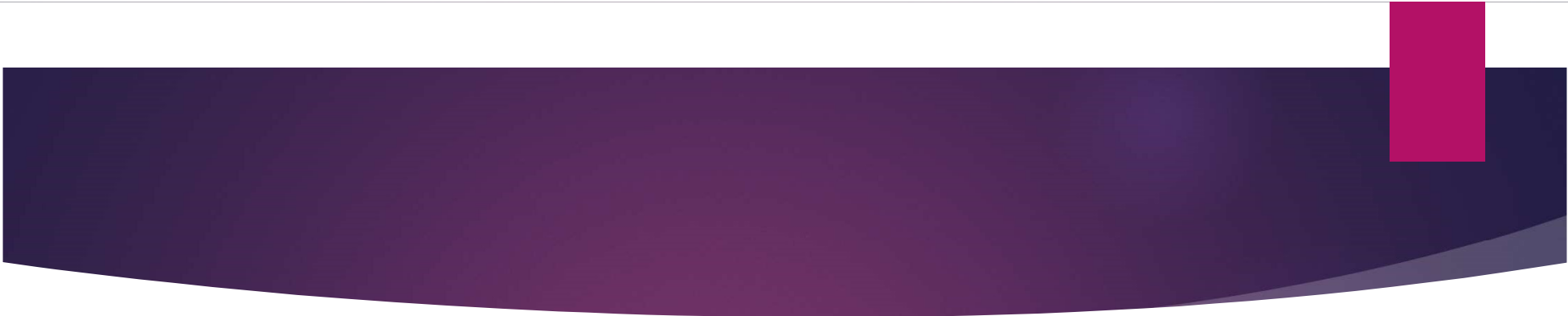














## How do the teachers do this?

- Doing
- Making
- Solving
- Talking
  
- Assessing

How do we know what the students know?

Maths Online Interview

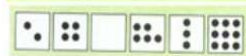
## Example questions from the Interview

Detour for children starting the first year of school.

Also recommended for year 1 and 2 children who had difficulty counting collections in Q1

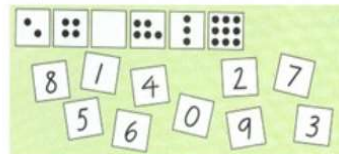
(III) Subitising/Matching Numerals to Quantities/Ordering/One-to-one Correspondence/Part-part-whole

a) I'm going to show you some cards quite quickly. Tell me how many dots you see. Show each pink card for 2 seconds only, in the following order and orientation:



Recognise quantities *without counting* (subitising)  2  4  0  5  3  9

Now put the dot cards all down in order shown here.



Spread out pink 0-9 cards randomly, face up, in front of the child, between child and dot cards.

b) Find the number to match the dots. (If the child seems puzzled that there are more numeral cards than sets of dots, explain You won't need to use all the numbers.)

Match numerals to quantities  2  4  0  5  3  9

Remove the dot cards and the zero card. Shuffle the numeral cards and place them face up randomly on the table.

c) Please put the number cards in order from smallest to largest.  Order numeral cards 1-9  Other

If the child is successful, hand across the response.

This question is part of the Detour designed for students in their first year of school.

## What can you do?

- ▶ **Build on success**
- ▶ **Let them work things out**
- ▶ **Be patient**
- ▶ **Talk about it**
- ▶ **Speak the language**
- ▶ **Don't rush**

# Maths around the house

