



Supporting your child in Mathematics

Prep Parent Workshop -2019



Place Value - Underpins all aspects of Mathematics

Six Key Aspects of Place Value (Rogers, 2014)

- **Make/represent** - identify the value of a number using a range of materials
- **Name/record** - read and write or record a number in words and symbols, name place value columns and the value of each digit, rounding to the nearest place value part
- **Rename** - in multiple ways e.g. 543 ones/ 5 hundreds, 4 tens, 3ones/ 54 tens 3 ones
- **Calculate** - apply knowledge of the place value to complete calculations using 4 operations
- **Count** -forwards and backwards, bridging, applying language such as before, after, between, more, less
- **Compare/order** - determining which is larger or smaller, ascending and descending order

Counting

- Linking number naming sequence with a count of objects
(One of the six aspects of Place Value)

Check

- Can they count forward to 10 and then back from 10
- Can they count a collection of objects up to 10 with one-to-one correspondence
- Can they break the number naming sequence 3,4,5 (counting from different points
- If they know the number in a collection
- If they recognise the total regardless of how it may appear

Counting

- Forward counting links to addition
- Backward counting links to subtraction

Activity - Keep the count

Activity - start by modelling the activity

Using the counters ask your child to 'Keep the Count' as you move counters in and out of a collection

- Breaks the counting chain
- Name the collection
- Recognise the total

Subitising - Latin word for suddenly

What is it??

Instantly recognising how many item there are in a collection

Critical part of number development

Helps them to relate number to actual items or groups of items (number conservation)

Subitising

First steps -

- Working on recognising a collection from 0-5
- Patterns on a dice

Build a mental picture

- What do you picture in your mind to help you remember?
- Collections can be broken into smaller parts

To extend verbally explain the pattern and they have to guess the pattern

How many?

Subitising - using dot cards

Next

Dot Cards

Hold up a card for 2-3 seconds.

How many dots did you see?

How did you know how many?

How did you know that was _____?

How did you see it?

What did you see?

This lead on to the concept of Part-Part-Whole

Subitising - More simple activities

Using playing card

- Concentration
- snap

Dominoes

Part-Part-Whole

Part-part-whole relationship involves seeing numbers as being made of two or more parts

Assists with solving addition and subtraction problems

Activities - PPW

Shake and Spill - using two different objects



PART	PART
WHOLE	

Activities - PPW

Shake and Spill - using two different objects



PART	PART
6	

Activities - PPW

Shake and Spill - using two different objects



3	PART
6	

Activities - PPW

Shake and Spill - using two different objects



3	3
6	

Activities - PPW

Shake and Spill - using two different objects



PART	PART
6	

Activities - PPW

Shake and Spill - using two different objects



4	PART
6	

Activities - PPW

Shake and Spill - using two different objects



4	2
6	

Part-Part-Whole Roll

1. Roll the die
2. Place counters in the first part
3. Roll the die again
4. Place counters in the second part
5. Push both part together into the whole and count
6. Be sure to record the parts and the whole