



# Maths workshop

## Be positive about maths!

- Everyone can learn maths!
- It is important and fun and real!
- You use it all the time: shopping, cooking, at work!
- Be positive! Avoid saying "I was never any good/never liked maths at school!"
- Be persistent and praise!
- What do you mean? How do you know? Talking about their ideas and how they are solving a problem helps children to reason mathematically.

## Counting

Counting underpins all calculations and helps with number sense. It is important to count backwards as well as counting forwards.

### Stages:

- String – continuous sound string
- Unbreakable list – unbroken – always starts at 1
- Breakable chain – can start at any point
- Numerable chain – counting from 3, 3 is 1<sup>st</sup> number, 4 is 2<sup>nd</sup>...
- Bi-directional chain – forwards and back

### Opportunities to count at home:

- Count collections of toys, objects, shells, conkers... Encourage accurate 1:1 and moving or lining up.



- Count actions (hopping, jumping, swing...) gives opportunity to count bigger!



- Cooking, laying the table, sorting the washing, putting toys away.
- Games: How many bubbles can you pop? How many times can you keep the balloon/ball up? Hide and seek (count forwards and backwards) number track games – snakes and ladders, ludo, frustration, dominoes

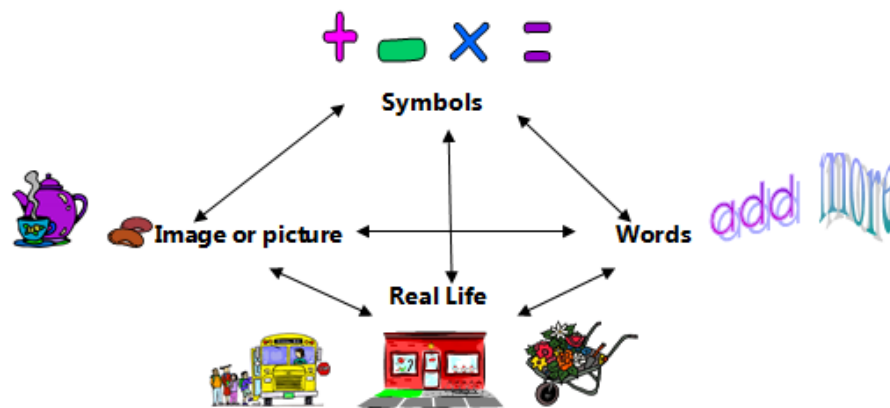
## Understanding number

- Number represents a quantity
- Numbers get bigger by 1 as you count forwards
- Numbers get smaller by 1 as you count backwards

## Problems with counting! - Teen and ty numbers – an image to help remember

- **Teen** "magic **bean**" number 1 is beanstalk units are the leaves – you need the beanstalk first before the leaf
- **Ty** "cup of **tea**" number – the 0 is the handle of the teacup

## The Connective Model



## Opportunities to develop maths skills at home

### Role play:

- Shop ( toy, pet, sweet... ) café
- Activities: buy 2 items that cost exactly 10p / 20p / 50p / £1
- Buy 1 item and calculate change from 10p / 20p / 50p / £1
- Price rise! Items in shop are now 1p /10p / 20p / 50p / £1 more expensive!
- Sale! Items in shop are now 1p /10p / 20p / 50p / £1 off!
- If one cake costs 3p, how much would 4 cost?
- If the cakes are 15p each, how many can I buy for £1?
- If we share these sweets, how many will we get each?
- Counting the wheels on 6 cars

### Board games – roll 2 dice!

### Cooking, DIY & Craft – measuring length, mass or volume/capacity

### Reading numbers on the street and measures on food and drink items

### Telling the time, reading timetables

### Bingo!

Number pairs to 6 (1 to 6 dice), 10 (0 to 9 dice), 20 (0 to 19 dice)

Double (use 0 to 9 dice)

Times tables (use 0 to 9 dice)

### Talking about shape

### Internet Games

- Espresso Username: Login:
- [www.ictgames.co.uk](http://www.ictgames.co.uk)
- [www.topmarks.co.uk](http://www.topmarks.co.uk)
- [www](http://www).

### Book recommendation:

"Maths for Mums and Dads" by  
Rob Eastaway and Mike Askew

### Story Maths!

- "Six Dinner Sid" Inga Moore
- "Spaghetti and Meatballs for all" Marilyn Burns
- "A place for Zero" Angeline Sparagna LoPresti
- "One is a snail, Ten is a crab" April Pulley Sayre
- "Centipede's 100 Shoes" Tony Ross
- "One Hundred Hungry Ants" Elinor J Pinczes
- "Who Sank the Boat" Pamela Allen
- "The Great Pet Sale" Mick Inkpen