



## Mathematics @ Dinnington

# KIRFs

## Key Instant Recall Facts

### *Nursery*

To help develop children's fluency in Mathematics, we have identified some Key Instant Recall Facts that should be learnt off by heart each half term.

Children will practice these facts in class, but would benefit from regular practice at home 3 times a week as well. At the end of each half term they will be assessed on how well they achieve each fact.

Please see attached lists of KIRFs which are aligned to the Maths curriculum we deliver.

### **Top Tips**

*The secret to success is practising little and often. Use time wisely. Can you practise these KIRFs while walking to school or during a car journey? You don't need to practise them all at once: perhaps you could have a fact of the day. If you would like more ideas, please speak to your child's teacher.*

## Nursery Block 1 KIRFs

By the end of this block, children should know the following facts. The aim is for them to recall these facts instantly and accurately

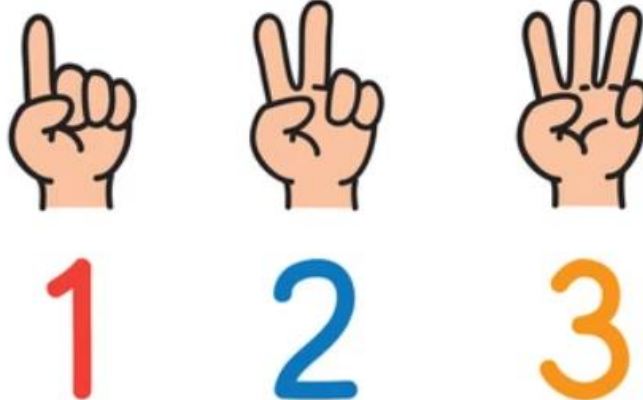
### Recognise and recite the number names to 3.

1 = one

2 = two

3 = three

### Touch count to 3



### Possible learning activities

- **Snack Counting** – Give 5 grapes/crackers; ask your child to touch and count each one before eating.
- **Clap and Count** – Clap hands or tap the table up to 3 times, saying the numbers as you clap.
- **Hand and Finger Counting** – Count fingers on one hand, touching each finger and saying “one, two, three, four, five.”

## Nursery Block 2 KIRFs

By the end of this block, children should know the following facts. The aim is for them to recall these facts instantly and accurately

### Recognise and recite the number names in order to 5.

1 = one

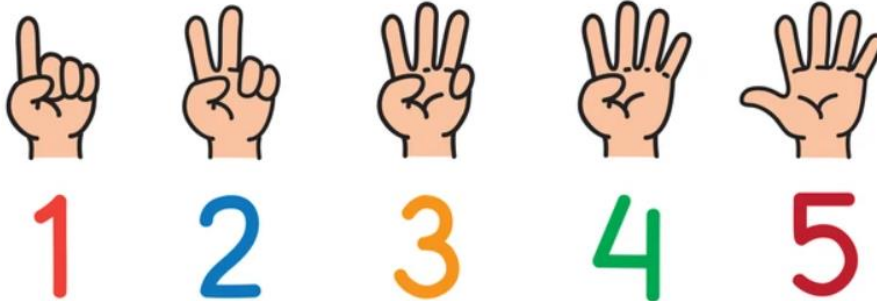
2 = two

3 = three

4 = four

5 = five

### Touch count to 5



### Possible Learning Activities

- **Number Songs & Rhymes** – Sing familiar rhymes (“Five little ducks,” “1, 2, 3, 4, 5 once I caught a fish alive”).
- **March and Count** – March around the room, counting steps up to 5.
- **Tidy-Up Count** – Pick up 5 toys one by one, touching each and saying the number as it goes in the basket.
- **Show finger numbers** – Count up to 5 using fingers and say the number out loud.

## Nursery Block 3 KIRFs

By the end of this block, children should know the following facts. The aim is for them to recall these facts instantly and accurately

### Match amount to numeral to 5

1

2

3

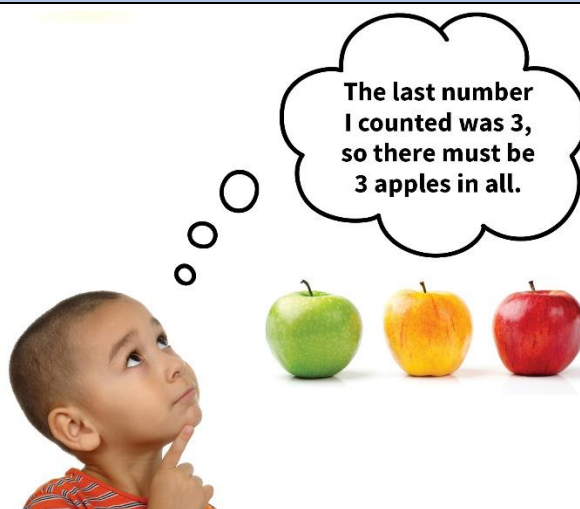


4

5



Understand that the last numeral reached when counting is how many there are in total



### Possible Learning Activities

- **Number Hunt:** Place number cards (1–5) around the room. Ask your child to find objects (e.g., spoons, cars) and match the correct number of objects to each card.
- **Dot-to-Number Match:** Draw dots (1–5) on paper and have your child place the correct numeral card next to each group.
- **Counting Out Loud:** When tidying up, count each item as you put it away. After counting, ask, “How many did we put away?”
- **Story Time Counting:** While reading a book, count objects on a page together. Ask, “How many ducks are there?” after counting.

## Nursery Block 4 KIRFs

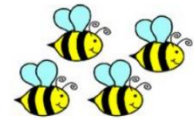
By the end of this block, children should know the following facts. The aim is for them to recall these facts instantly and accurately

### Sort objects and compare quantities.

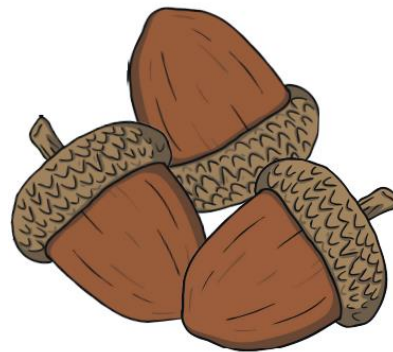
Which group has more?



Which group has less?



### Subitise up to 3 on fingers and on common objects.



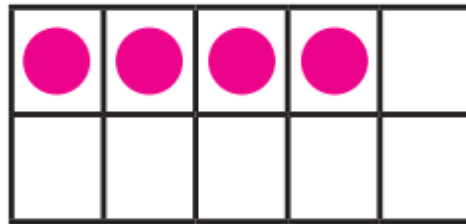
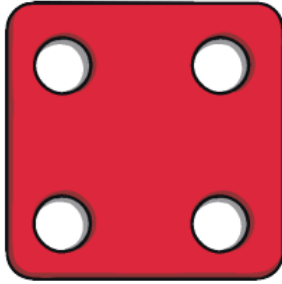
### Possible Learning Activities

- **Toy Sort** – Ask your child to sort cars and dolls (or any two toy types) into separate piles.
- **Nature Sort** – Collect leaves, stones, or sticks outside and sort by size, shape, or colour.
- **Family Shoes** – Sort shoes into “adult” and “child” piles. Count and compare which group has more/less.
- Always encourage children to **touch and count** when comparing.
- Reinforce vocabulary: “more,” “less,” and “same.”
- **Everyday Subitising** - When setting the table, quickly show 1, 2, or 3 spoons and ask, “How many?”. Use opportunities during play (e.g., “How many cars are in the garage?”) for quick subitising practice.

## Nursery Block 5 KIRFs

By the end of this block, children should know the following facts. The aim is for them to recall these facts instantly and accurately

### Subitise to 4 on fingers and on common objects



### Understand positional language

The dog is behind the chair.



The dog is on the chair.



The dog is next to the chair.



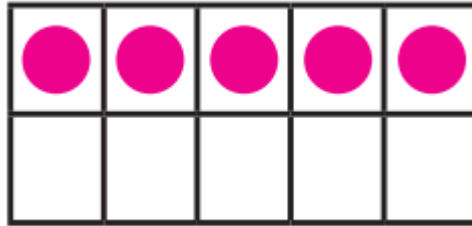
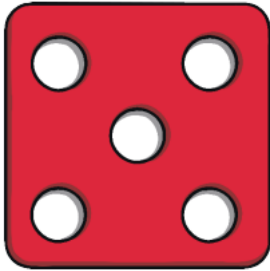
### Possible learning activities

- **Object Snap:** Place 1–4 small toys or blocks on the table. Cover them, reveal them for a second, then cover again. Ask, “How many did you see?”
- **Quick Picture:** Draw 1–4 simple shapes (e.g., stars) on a piece of paper. Show for a moment, then hide. Ask, “How many stars?”
- **Obstacle Course:** Set up simple obstacles (cushions, boxes). Ask your child to go “over,” “under,” “between,” or “next to” the objects.

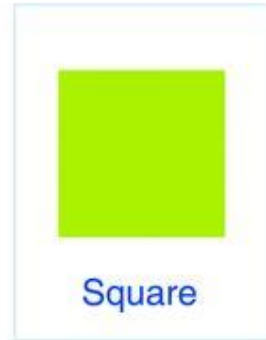
## Nursery Block 6 KIRFs

By the end of this block, children should know the following facts. The aim is for them to recall these facts instantly and accurately

### Subitise to 5 on fingers and on common objects



### Recognise and name common 2D shapes



### Possible learning activities

- **Dot Cards:** Make cards with 1–5 dots in different patterns (not just in a line). Flash a card and ask your child to say the number instantly.
- **Clap and Show:** Clap your hands up to 5 times and ask your child to show the same number of fingers, or vice versa.
- **Shape Hunt:** Go on a “shape hunt” around the house or outside. Ask your child to find and name circles, squares, triangles, and rectangles.
- **Shape Snack:** Use crackers, fruit slices, or sandwiches cut into shapes. Ask your child to name each shape before eating.
- **Shape Songs and Stories:** Sing songs or read books about shapes. Pause to point out and name each shape together.