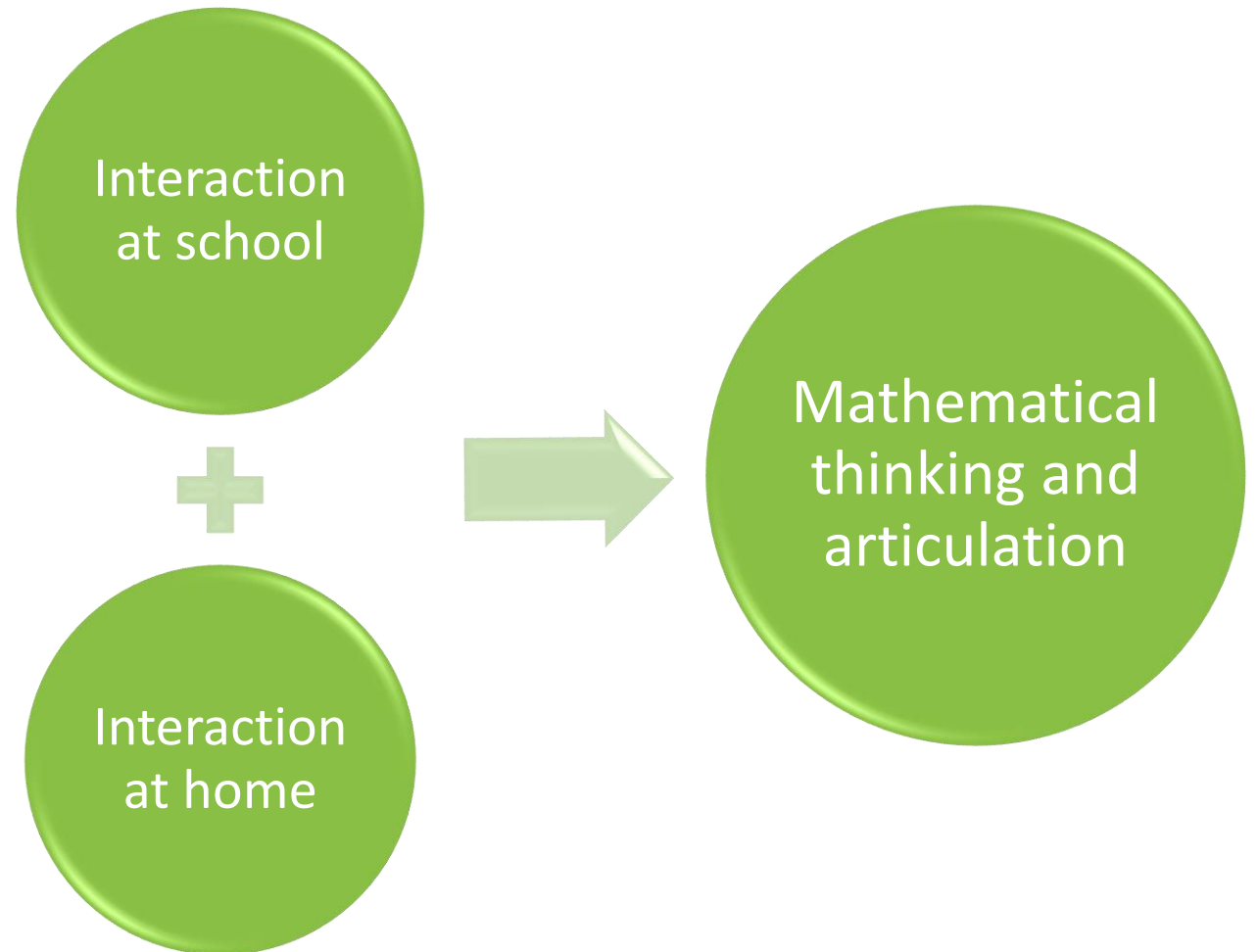




# KS2 Multiplication and Times Tables

# Aims

- The Maths curriculum across Pirton
- Times Tables focus
- Ideas for supporting your child at home



# What do we teach and when?

## National Curriculum

### Aims of the National Curriculum:

- All children become fluent, can reason mathematically and can solve problems by applying their maths skills in a variety of contexts.
- It is organised into different areas and connections are made between them.
- The areas that appear in brackets are taught later in the Primary phase.





A focus on

Multiplication and times table knowledge

# Multiplication in the National Curriculum

## Year 3:

- recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
- write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods

## Year 4:

- recall multiplication and division facts for multiplication tables up to  $12 \times 12$
- use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers
- recognise and use factor pairs and commutativity in mental calculations
- multiply two-digit and three-digit numbers by a one-digit number using formal written layout

## Year 5:

- identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers
- know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
- establish whether a number up to 100 is prime and recall prime numbers up to 19
- multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
- multiply and divide numbers mentally, drawing upon known facts
- multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000
- recognise and use square numbers and cube numbers, and the notation for squared ( $^2$ ) and cubed ( $^3$ )

## Year 6:

- multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication
- perform mental calculations, including with mixed operations and large numbers
- identify common factors, common multiples and prime numbers

## **Times Tables Learning at Pirton School**

Our Mathematics curriculum is carefully planned to ensure children develop and build on their mathematical knowledge and understanding and have lots of opportunities to revisit these elements of their learning to make sure they become confident mathematicians and can remember and use their skills efficiently.

### **The Importance of Times Table Knowledge and Recall**

Knowing times tables facts is a very important part of maths learning and being able to quickly remember and use maths learning and facts accurately supports children as they learn more and remember more and progress in school.

Many mental maths activities require a quick recall of multiplication and division facts and children who are secure in their times tables knowledge are therefore able to complete these tasks with accuracy and as quickly as possible.

It is worth explaining what we mean by 'knowing' times tables facts. A child who knows their times tables will be able to recall any of the multiples of a times tables in any order quickly.

The latest government expectation is that children will be able to recall times tables facts within 6 seconds by the end of Year 4. Securely knowing times tables facts includes the ability to recall and know the corresponding division fact for any multiplication question - i.e.  $4 \times 6 = 24$  as well as  $24 \div 6 = 4$ .

### **Times Tables Expectations**

Below are the times tables your child should know as a minimum by the end of each academic year. This is in line with national expectations.

# Maths teaching and learning in school

Daily sessions  
Adult led  
Child led

Early Years

Daily maths lessons  
Daily fluency  
Y2 – Turbo Tables  
and TTRS from  
Summer Term

Key Stage 1

Daily maths  
lessons  
Daily fluency  
TTRS  
Turbo Tables  
Y6 – Maths  
boosters

Key Stage 2

# Maths online



**Topmarks**      Topmarks Search      Whiteboard Resources      Learning Games      Topmarks Apps      Topmarks Blog

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3-5 Years      5-7 Years      **7-11 Years**      11-14 Years

Play these fun Maths Games for 5-7 year olds

Maths

English

**Choose a Category:**  
[Counting](#)   [Ordering and Sequencing](#)   [Place Value, Odd and Even](#)  
[Addition and Subtraction](#)   [Times Tables](#)   [Multiplication and Division](#)   [Money](#)  
[Shapes](#)   [Measures](#)   [Data Handling](#)   [Problem Solving](#)

**Counting Games**  
Learning to count is fun with this range of free educational games for Key Stage 1 children. Start with the simple counting games and progress to numbers up to 100. There are also matching and sequencing numbers activities.

Today's number is 5      **Today's Number (to 20)**



# TT Rockstars

- Aims to develop children's quick recall of times table facts
- At home for as little as 5 minutes a day four or five times a week.

## Game Types

1. Gig
2. Garage
3. Studio
4. Soundcheck
5. Jamming
6. Multiplayer



# Supporting your child

- Encourage
- Garage, Garage, Garage
- Remind them that it is ok to make mistakes
- Rockstar by the end of year 4
- Take an interest in their avatar and spending coins
- Don't let them hear that you are "rubbish at maths" please





Thank you