



Curriculum Approach for Number Sense (Times Tables) at Great Dalby Primary School Using Number Sense.

What is Number Sense?

Number sense is the ability to understand and work with numbers in a meaningful way. It's essential for helping pupils not just perform calculations but also grasp the concepts behind them. This foundation is crucial for building confidence and a positive attitude towards math.

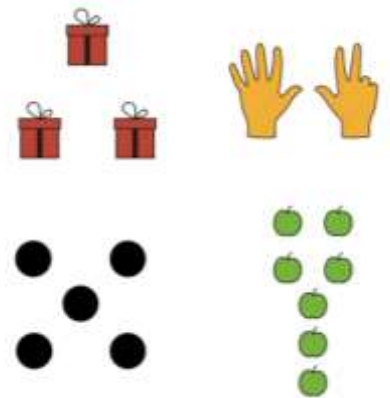
How We Teach Number Sense

1. **Focus in Early Years:** In the early years, we concentrate on helping pupils understand numbers up to ten. They engage in fun activities that involve recognising small groups of objects, breaking numbers into parts, and using hands-on materials. This playful approach helps them visualise numbers and understand their relationships.
2. **Daily Practice:** We dedicate **15 minutes each day** to number sense activities. This consistent practice allows pupils to explore numbers through games and discussions, making math enjoyable and reinforcing their understanding.
3. **Progression Through School:** As pupils move up through the grades, we build on their foundational skills. They learn more complex concepts like addition, subtraction, multiplication, and division, always using the number sense approach to ensure they understand the "why" behind the maths.



Benefits of the Number Sense Approach

- **Better Understanding:** By focusing on the meaning of numbers, pupils develop a deeper understanding of math concepts, which helps them solve problems more effectively.
- **Increased Confidence:** Regular practice in a supportive environment boosts pupils' confidence in their math skills, making them more willing to tackle challenges.
- **Critical Thinking:** Engaging with numbers in different ways encourages pupils to think critically and make connections between various math concepts.
- **Positive Attitude:** Making math fun and interactive helps pupils develop a love for learning, which can last a lifetime.

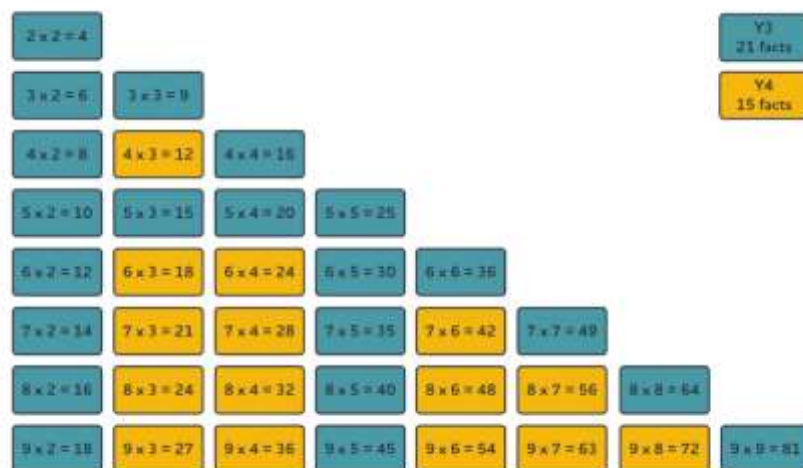


Times Tables: Learning with Number Sense

Why We Focus on Times Tables:

Learning times tables is important for mastering multiplication and division. Our approach emphasises understanding the relationships between numbers instead of just memorising facts. This helps pupils grasp the concepts behind multiplication, making it easier for them to recall facts later.

- Structured Learning:** We introduce **36 key multiplication facts** in a clear and organised way. Each fact is taught using visual aids and engaging methods, helping pupils see patterns in the numbers.
- Daily Practice:** Just like with number sense, we dedicate **15 minutes each day** to practicing times tables. This regular practice helps pupils become fluent and confident in their multiplication skills.
- Understanding Concepts:** We focus on both recalling facts and understanding the concepts behind them. Pupils learn to recognise patterns in multiplication, which supports their overall math development.
- Supportive Environment:** Teachers provide personalised support to ensure every pupil can achieve fluency in their times tables, helping them feel successful.



The Number Sense approach, used from early years through primary school, is designed to build a strong foundation in mathematics. By focusing on understanding and relationships rather than rote memorisation, we equip pupils with the skills they need to succeed in math and beyond. This method not only enhances their math abilities but also creates a positive and engaging learning environment.

Our programmes

Early Years Number Sense

Builds a deep understanding of quantities to ten. The foundation for factual fluency.

For Reception (age 4 - 5)

Number Facts Fluency

Builds fluency in addition & subtraction facts, and confidence and flexibility with number

For KS1 and beyond (age 5 up)

Times Tables Fluency

Builds fluency in multiplication & division facts, and understanding of multiplicative relationships

For KS2 and beyond (age 7 up)