A Multisensory Approach to Times Tables

www.multisensorymatters.com
How SpLD Affect Maths

- Learning Times Tables
- Sequencing
- Spatial Awareness
- Visual Difficulties
- Directional Issues
- Time
- Working Memory
- Speed of Working
- Mathematical Communication

- Anxiety and Self Esteem
How can you tell?

Dyslexia
- cannot remember
- can reason

Dyscalculia
- can remember
- cannot reason
“We learn maths at various stages. It is important that each stage is understood before the next is tackled”
Professor M Sharma

- **Intuitive** - relating to existing knowledge.
- **Concrete** - concrete material to represent a concept.
- **Pictorial** - drawing to represent concept.
- **Abstract** - translation into maths notation.
- **Applications** - to new situations.
- **Communication** - explaining to others.
**Why Times Tables?**

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<th>Fractions</th>
<th>Percentages</th>
<th>Solving Equations</th>
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<tbody>
<tr>
<td>Ratio</td>
<td>Metric-Imperial</td>
<td>Prime numbers</td>
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<td>Proportion</td>
<td>Pie Charts</td>
<td>Mean</td>
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<td>Factorising Expressions</td>
<td>Pythagoras’ Theorem</td>
<td>Division</td>
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<td>Area</td>
<td>Multiples and Factors</td>
<td>Square / cube numbers</td>
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<td>Volume</td>
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<td>Sequences</td>
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Are all GCSE maths topics which rely heavily upon times tables.
Use the channels simultaneously, where possible.

Build on the strongest mode and train the weaker ones.
Solutions

Symbols and Language
Match key words to concepts

Volume
Circumference

Match symbols to the most useful words
Add Multiply
Value and Build on Prior Learning

- Get some kit and use it!
- Plan lessons like feasts; with a variety of exciting courses.
- Use rich tasks to deepen understanding.
- Differentiate by giving choices.
- Keep it intuitive, concrete and pictorial not just abstract.
- Find strategies to reduce memory load.