



## Lesson sequence – what does maths look like at SMQ?

Maths is taught on a 2-year cycle in each phase, using Oak Academy as a basis but must be adapted to suit each class' needs.

**Pre-load lesson:** Depending on class demographics, a preload lesson may be required and key vocabulary discussed prior to the units.

**Lessons:** Teachers have a LTP to follow. They have autonomy to select the lessons within each unit which will enable the greatest learning to take place. This may look different class to class.

Teachers have discretion to spend longer on some units over others, or to merge objectives, whilst being mindful of the LTP.

All children will have access to manipulatives to aid learning, and lessons are designed to follow the concrete, pictorial and abstract method.

Adaptations are available as needed.

## Assessment

Teacher uses formative assessment during lessons. Live marking and I can's ticked, double ticked or dotted. End of term assessment used.

## Classroom environment:

Key vocabulary and Knowledge Organiser to be displayed.

Displays promote curiosity

'Sticky Knowledge' to be added to working wall after each lesson.

Manipulatives available and used in lessons accordingly.



The children at St Mary Queen of Martyrs will study the following areas as part of their lesson design:

### Declarative Knowledge

**Knowing that** something is true.

Example: Knowing that  $3 \times 4 = 12$  or that a square has four equal sides.

Purpose: This is factual or conceptual knowledge, like definitions, formulae, and number facts.

### Procedural Knowledge

**Knowing how** to do something.

Example: Knowing how to multiply two-digit numbers or how to simplify a fraction.

Purpose: This includes methods, steps, and algorithms for solving problems.

### Conditional Knowledge (also called Disciplinary)

**Knowing when** and why to use certain mathematical strategies or procedures.

Example: Choosing to use estimation to check if an answer is reasonable, or knowing when to use a bar model to solve a problem.

Purpose: This supports mathematical reasoning and problem-solving in different contexts.

▶ This PC > St Cuthberts RC Academy Trust Shared (S:) > SMQOM Academy > Staff Shared > Maths > Maths 25 26 > Long term plan

## Home links

Homework tasks - on half termly using Google Classroom, shared and celebrated in class.

## Lesson design

'I can' learning intention displayed.

Vocabulary explained and stem sentences used. Adaptations and manipulatives planned for.

Golden challenges planned for.