MacIntyre Academies
Venture Academy

Long-Term Curriculum Overview: Mathematics
Key Stage(s): 2/3
Curriculum Lead: Layla Shepherd
Academic Year: 2025-2026

Curriculum Intent

Our curriculum aims to nurture the whole child, supporting emotional wellbeing, resilience, and positive mental health. We focus on creating safe, inclusive environments where pupils with SEMH needs can thrive academically and personally. The curriculum is personalised and underpinned by strong relationships and consistency.

Curriculum Implementation

- Structured Routine: Clear, consistent lessons to support the reduction of anxiety and increase engagement.
- Therapeutic Approaches: Use of Zones of Regulation.
- Adapted Curriculum: Use of accessible activities and adapted scaffolding to meet the needs of all learners.
- Environment: Calming, sensory-aware settings.

Curriculum Impact

- Pupils develop emotional literacy and self-regulation.
- Increased engagement and attendance.
- Reduced behavioural incidents.
- Positive relationships with peers and adults.
- Preparation for transitions and independence.

Term	Topic / Learning Focus	Links towards EHCP Outcomes	Independent Skills Development	Assessment / Reflection of Learning	Resources / Programmes Used
Autumn 1	**Fractions - Building Mathematical Confidence**	**Communication & Interaction:** Mathematical vocabulary development through fraction languagePeer collaboration during fraction activities **Cognition & Learning:** Step-by-step fraction concepts building logical thinking. Visual representation skills through bar models **Social, emotion and mental health needs:** Building mathematical confidence through achievable steps. Celebrating small wins with fraction mastery	Using manipulatives independently to represent fractions Self-checking work using visual models Choosing appropriate tools (number lines, bar models, counters) Breaking down complex problems into smaller steps Developing mathematical reasoning skills	Regular check-ins using "thumbs up/down" confidence scales Practical fraction activities with real objects Peer assessment through fraction games Photo evidence of manipulative work Weekly reflection	Fraction strips and circle Place value counters Interactive whiteboards Fraction walls Real-world objects for sharing (pizza, chocolate bars) Number lines Bar model templates Zones of Regulation visual prompts
Autumn 2	**Decimals - Precision and Real-World Applications**	**Communication & Interaction:** Precise mathematical language with decimal vocabulary. Explaining decimal reasoning to peers **Cognition & Learning:**	Using calculators appropriately for checking Measuring real objects using	Hands-on measuring activities Money-based practical assessments	Decimal place value charts Play money (coins and notes)

		Understanding place value system extension. Making connections between fractions and decimals. **Social, emotional and mental health:** Building on Autumn 1 success to maintain confidence. Real-world applications showing relevance and purpose	decimal measurements Converting between units independently Creating own decimal number sequences Self-correcting using place value charts	Exit tickets with decimal confidence ratings Portfolio of decimal work showing progression Verbal reasoning explanations	Measuring equipment (rulers, scales) 0.01, 0.1 place value counters Hundred squares Number lines (0-2 marked in decimals) Real shopping scenarios Calming background music during focused work
Spring 1	**Time: Making Every Moment Count!**	**Communication and Interaction:** Using time vocabulary confidently (before/after, earlier/later). Explaining reasoning when solving time problems **Cognition and Learning:** Developing multiplicative reasoning skills. Making connections between different time units. Problem-solving strategies **Social, emotional and mental health:** Building confidence through structured, sequential learning. Celebrating small wins with time conversions. Reducing anxiety	Reading both analogue and digital clocks independently Planning daily routines using time knowledge Using calendars to organize events and appointments Self-monitoring task completion times Making informed choices about time allocation Developing punctuality skills for transitions	**Practical observations:** Reading clocks during daily routines **Interactive questioning:** "How long until break time?" **Problem-solving tasks:** Planning a school trip timeline **Peer teaching:** Students explaining time concepts to each other **Self-reflection:** "What did I find tricky about time today?"	**Visual aids:** Large demonstration clocks, calendar displays **Manipulatives:** Individual student clocks for hands-on learning **Technology:** Digital stopwatches, online time games **Memory strategies:** Rhymes for days in months ("30 days has September...") **Differentiation:**

		through predictable lesson routines		**Real-world applications:** TV schedules, cooking times	Time conversion charts, number lines **Sensory support:** Timer visuals for activity transitions **Zones of Regulation:** Using timers for regulation breaks
Spring 2	**Shape**	**Communication & Interaction:** Using precise language to describe shapes and data. **Cognition & Learning:** Building spatial awareness, logical reasoning through pattern recognition, data interpretation skills. **Social, emotional and mental health:** Building confidence through hands-on activities, celebrating success in problem-solving, reducing anxiety through structured approaches.	Measuring angles using right-angle finders, using mirrors to check symmetry, drawing shapes on coordinate grids	Practical observations	Visual angle cards, right-angle finders, mirrors for symmetry work, coordinate grids, coloured manipulatives, graph paper, rulers
Summer 1	**Statistics**	**Communication & Interaction:** Developing mathematical vocabulary (acute, obtuse, scalene, isosceles, coordinates). **Cognition & Learning:** Building spatial awareness, logical reasoning through data interpretation skills.	Creating own pictograms and bar charts, collecting and presenting data independently	Peer discussions about data interpretation,	Real- world data collection sheets,

		Social, emotional and mental health: Building confidence through hands-on activities, celebrating success in problem-solving, reducing anxiety through structured approaches.			
Summer 2	**Position & Direction**	**Communication & Interaction:** Using coordinate vocabulary (x-axis, y-axis, translate), giving and following positional instructions, explaining mathematical reasoning. **Cognition & Learning:** Developing spatial reasoning, understanding coordinate systems, logical sequencing in translations. **Sensory/Physical Needs:** Fine motor skills through accurate plotting, visual processing of coordinate grids.	Following coordinate instructions independently, plotting points without support, creating own coordinate puzzles, describing movements using mathematical language	Practical plotting activities, peer checking of coordinate work, verbal explanations of translations, written recording of coordinates, problem-solving challenges	Large coordinate grids for playground work, coordinate grid paper, coloured pencils, rulers, coordinate games and puzzles, interactive whiteboard resources