

LV5 MATH OVERVIEW

AAA MATH

At AAA, students are not simply given harder questions. We help students learn more, think deeper, and move ahead in math. Our accelerated program builds on what students already know and moves into larger numbers, multi-step problems, problem solving, and advanced math concepts beyond the standard school curriculum.

Level 5 is an accelerated Grade 5 math program that can move into Grade 6 math and beyond. At the beginning of the year, each student completes a pre-assessment. This helps us see which Grade 5 skills students already know and which skills may need a quick review before moving forward.

HOMEWORK

- ☐ Homework will be assigned once a week. This will usually be a review of concepts covered, or test preparation.

CYCLES

Each cycle represents a complete learning progression rather than a fixed number of weeks or lessons.

Each cycle is approximately 4–5 weeks, with two units taught at a time. However, the timeline is flexible and may change based on students' needs, progress, and understanding.

Lessons are adjusted based on each student's learning. If students need more practice with a skill, we provide additional support. If students already understand a concept, we move them into more challenging problems, deeper thinking, enrichment, and next-grade-level math.

Within each cycle, students typically move through:

Review → Build → Practise → Apply → Extend → Master

We do not move to the next topic simply because a certain number of lessons have passed. We regularly check student understanding and use their work to decide when they are ready for the next level of challenge. This allows students to keep progressing and learning beyond their current grade level.

CONTACT INFO

We are here to help your child succeed! If you have questions or need extra support, feel free to reach out via email.

jyeung@acceleratedachievers.com

For any technical (Zoom) or scheduling issues, please email

msangela@acceleratedachievers.com

To submit homework through email instead of Seesaw, please email

AAAhomeworkcheck@outlook.com

UNITS OF STUDY

Cycle 1

Place Value

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
7	1	5	9	3	6	2

Place Value

- Understand the value and relationships between digits in large whole numbers and decimals.
- Compare, order and round whole numbers and decimals.
- Explain patterns created when multiplying/dividing by 10, 100 and 1,000.
- Use place value to estimate and check calculations.
- **Extend:** reason about decimal magnitude and explain why the position of a digit determines its value.

Cycle 2

Multiplication Fluency



- Multiply large whole numbers and decimals accurately.
- Select efficient strategies based on the numbers involved.
- Estimate before calculating and evaluate reasonableness afterward.
- Analyze different algorithms and representations.
- Explain and justify mathematical decisions.
- **Extend:** generalize relationships between factors and products.

Cycle 3

Fractions



- Compare and order fractions, decimals and other representations of rational numbers.
- Add, subtract, multiply and divide fractions as appropriate to the learning progression.
- Explain relationships between fractions and decimals.
- Select efficient strategies for fraction problems.
- Apply fractions to multi-step and real-world problems.
- **Extend:** reason about ratios, rates and proportional relationships.

Multiplication

- Multiply large whole numbers efficiently and accurately.
- Multiply decimals using place-value reasoning.
- Select and justify an appropriate strategy or algorithm.
- Estimate products before calculating.
- Identify and explain errors in multiplication solutions.
- Apply multiplication to multi-step and unfamiliar problems.
- **Extend:** generalize multiplication patterns and connect multiplication to factors, multiples and algebraic thinking.



Division

- Divide multi-digit whole numbers using efficient methods.
- Interpret quotients and remainders in context.
- Estimate quotients and use inverse operations to check work.
- Solve multi-step division problems.
- Analyze errors and explain where reasoning went wrong.
- **Extend:** connect division to factors, multiples, fractions, decimals, ratios and rates.

Patterns & Algebraic Thinking

- Identify and generalize patterns.
- Describe relationships between two quantities.
- Represent relationships using tables, graphs, expressions and equations.
- Use variables to represent unknown or changing quantities.
- Solve and explain simple algebraic relationships.
- **Extend:** connect patterns to ratios, rates and algebraic expressions, preparing for Grade 6-level algebraic reasoning.

