RIVERDALE HIGH SCHOOL

Mathematics Subject Brief

Staff Members

- Betsy Carroll
- John Preacher
- David Thompson

The Mathematics department guides students through a structured progression from foundational algebra and plane geometry to advanced precalculus and college-level calculus. By integrating logical reasoning, quantitative data analysis, and mathematical modeling, the curriculum builds critical thinking skills essential for real-world applications and STEM fields.

9th & 10th Grade Course Sequences

- **Algebra**
  How do linear, exponential, and quadratic functions allow us to model patterns of change, analyze mathematical relationships, and solve real-world problems?
- **Geometry**
  How do geometric reasoning, spatial relationships, and data analysis empower us to model, evaluate, and make sense of the world around us?
- **Algebra 2**
  How do advanced functions, algebraic transformations, and systems allow us to analyze complex relationships and model real-world phenomena?
- **Pre-Calculus**
  How do the behaviors, representations, and limits of complex functions enable us to model continuous relationships and transition into calculus?

11th/12th Grade International Baccalaureate Diploma Program

- **IB Mathematics: Analysis & Approaches**

Riverdale Electives: Current & Historic

- **Advanced Calculus**
- **Core Calculus**
- **Universal Patterns (Geometry and Art)**

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