Curriculum Alignment & STEM Integration at Chartiers Valley

A Comprehensive 5 Year Plan

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Key Milestones

Comprehensive Atlas curriculum mapping and implementation across three stages: content mapping (Year 1), assessment development (Years 1-2), and instructional strategies/learning activities (Years 2-3)

Progressive STEM integration starting with pilot programs and expanding to middle school core subjects, high school CTE courses, and cross-curricular implementation

Robust teacher professional development through hands-on Atlas training and the establishment of PLCs

Creation of robotics programs across all school levels, including mentorship programs and annual competitions

Regular evaluation and adjustment cycles with annual reviews

YEAR 1
Full Curriculum Entry Into Atlas & STEM Pilot

Q4, March 2025 - June 2025

- Initial STEM Implementation
- Finalize Stage 1, Content Mapping in Atlas for all K-12 Courses
- Initiate Stage 2, Assessment Development for 50% of Core Subjects *(Math, Science, ELA, Social Studies)*
- Establish an Atlas Implementation Team
- Facilitate Hands-On Training for Atlas Curriculum Entry

YEAR 2
Complete Full Curriculum Implementation & Expand STEM

Q1, July 2025 – September 2025

- Complete Stage 2, Assessment Development for all K-12 Courses
- Initiate Stage 3, Instructional Strategies and Learning Activities
- Facilitate Atlas Training and Teacher Support
- Introduce STEM Integration into Middle School Core Subjects
- Establish Differentiated Professional Learning for Middle School Teachers
- Launch Elementary, Middle, and High School Robotics Clubs

YEAR 2
Complete Full Curriculum Implementation & Expand STEM

Q2, October 2025 – December 2025

- Complete Stage 3, Instructional Strategies and Learning Activities for 50% of Core Subjects *(Math, Science, ELA, Social Studies)*
- Conduct Curriculum Alignment Review
- Expand STEM into High School Career and Technical Education (CTE) Courses
- Pilot High School STEM Electives
- Establish Differentiated Professional Learning for High School Teachers
- Facilitate Hands-On Atlas Training for Stage 3 Curriculum Development

YEAR 2
Complete Full Curriculum Implementation & Expand STEM

Q3, January 2026 – March 2026

- Ensure Stage 3 is Complete for all Core Subjects *(Math, Science, ELA, Social Studies)*
- Initiate Stage 3 Documentation for Electives & CTE Programs
- Ensure STEM is Embedded Across All Academic Subjects
- Expand Partnerships with Industry and Higher Education
- Formalize Professional Learning Communities (PLCs)
- Support Ongoing Atlas Integration through Continuous Coaching and Feedback Sessions
- Connect Elementary, Middle, and High School Robotics Clubs to Form Mentorship Programs
- Host the First Annual CVSD Robotics Competition

YEAR 2
Complete Full Curriculum Implementation & Expand STEM

Q4, April 2026 – June 2026

- Conduct a Full Atlas Audit to Ensure 100% Curriculum Alignment
- Establish an Annual Curriculum Review Process
- Evaluate Year 2 STEM Integration & Make Adjustments for Year 3 Expansion
- Develop a STEM Sustainability Plan
- Facilitate District-Wide Professional Development on UbD & STEM
- Ensure All Teachers Are Comfortable with Atlas

YEAR 3
Complete Full Curriculum Implementation & Expand STEM

Q1, July 2026 – September 2026

- Ensure Stage 3 is Complete for all Remaining Courses
- Begin STEM Implementation into Interdisciplinary Learning
- Provide Middle School and High School Teacher Training

Q2, October 2026 – December 2026

- Conduct Curriculum Integration into Atlas
- Continue STEM Implementation into Career Connected Learning
- Facilitate High School Teacher Training

YEAR 3, Cont'd
Complete Full Curriculum Implementation & Expand STEM

Q3, January 2027 – March 2027

- Continue Curriculum Integration into Atlas
- Continue STEM Implementation by Enhancing Cross-Curricular STEM Engagement
- Provide District-Wide Teacher Training

Q4, April 2027 – June 2027

- Finalize Atlas Integration and Review
- Continue STEM Implementation and Prepare for Long-Term Growth
- Facilitate End-of-Year Teacher Training and Reflection

YEAR 4
Build Teacher Capacity & Make Data Driven Adjustments

Q1, July 2027 – September 2027

- Begin Curriculum Maintenance in Atlas
- Facilitate Teacher Leadership Development

Q2, October 2027 – December 2027

- Continue Curriculum Maintenance in Atlas
- Continue STEM Implementation by Refining Assessment Strategies
- Facilitate Teacher Training and Development

YEAR 4, Cont'd
Build Teacher Capacity & Make Data Driven Adjustments

Q3, January 2028 – March 2028

- Evaluate Curriculum and Instructional Adjustments
- Continue STEM Implementation by Strengthening Instructional Design
- Facilitate District-Wide Teacher Training

Q4, April 2028 – June 2028

- Finalize Curriculum Adjustments in Atlas
- Continue STEM Implementation by Ensuring Stability
- Facilitate End-of-Year Reflection and Teacher Leadership Transition

YEAR 5
Long-Term Evaluation & Continuous Improvement

Q1, July 2028 – September 2028

- Facilitate Curriculum Oversight
- Facilitate Teacher Leadership Development

Q2, October 2028 – December 2028

- Provide Curriculum & Instructional Impact Review
- Provide STEM Integration Review

Q3, January 2029 – March 2029

- Provide Sustainability Planning

Q4, April 2029 – June 2029

- Provide Final Review & Adjustments
- Provide STEM Implementation Sustainability

Thank You!