Flight Path 2030

Transforming Red Wing Public Schools into a Center of Excellence in Computer Science, Data Science, and Artificial Intelligence

Why Flight Path 2030 Matters

Red Wing Public Schools (RWPS) has launched a five-year plan to ensure every graduate is digitally fluent, ethically grounded, and future-ready. In today's world, using data and artificial intelligence responsibly is as essential as reading and math, so we're aligning classrooms, counseling, and partnerships accordingly.

This work is anchored in the RWPS Portrait of a Graduate — our North Star for developing critical thinkers, effective communicators, resilient learners, community-connected citizens, and technologically literate innovators.

Flight Path 2030 is not a standalone program — it is the blueprint for living out our Portrait of a Graduate. Each year builds toward producing curious, resilient, ethical, and AI-ready innovators who can thrive in college, career, and civic life. Flight Path 2030 advances AI Integrated Computing Education (AICE) across RWPS so every student encounters age-appropriate computing, data, and AI experiences in core classes, while students who want more can choose an advanced, credit-bearing AICE Flight Path that connects coursework to real projects, mentoring, and postsecondary options.

Our 2030 Vision

By 2030, every RWPS student and educator will be prepared to use new technologies in learning and life.

- **All students** will experience projects using data and technology in their everyday classes.

- **Tech-focused students** can pursue a rigorous AI Integrated Computing Education (AICE) Winger Flight Path with advanced courses, dual enrollment, and industry mentoring.

- **Staff** will be supported by an AICE Hub that provides vetted tools, coaching, and a community of peer mentors.

- **The system** will operate with clear policies, sustainable infrastructure, and aligned partnerships, embedding this work into the district's long-term planning.

Five Years of Transformation

Thanks to a **$3.2M philanthropic pledge from the Diercks Family Foundation**, RWPS can move quickly — front-loading training, tools, and experiences in Years 1-3, then tapering support as the district sustains the work. Here are a few examples of how this initiative will grow year over year with the RWPS team experimenting and learning together along the way to inform future years.

Note: This plan is intentionally embedded with flexibility. Annual reviews, student and staff feedback, and evolving best practices will guide adjustments to keep Flight Path 2030 aligned with both district needs and the broader educational landscape.

Year 1 (2025-26) — *Laying the Groundwork*

- Students: AI and data-infused assignments, AICE capstones/challenges, revised course and flight path guides, scholarships to Milwaukee School of Engineering summer camps, AP Computer Science Principles (and a new 8th grade elective) added to course registration for next year.

- Staff: board-approved AI guidance, foundational professional learning, updated 8th- and 11th-grade required Winger Flight Path course outcomes.

- Systems: launch of the AICE Hub, website updates, alignment with the district's strategic plan and dashboard, hire new AICE Specialist to support students and educators, technology infrastructure review.

- Community & Partnerships: FP2030 Community Forum, NCWIT Aspirations in Computing (MnTech), external district support (NLC), external grant applications, external evaluation of Flight Path 2030

Year 2 (2026-27) — *Spreading the Good Stuff*

- Students: AI chat helpers in classrooms, expanded AICE summer offerings, launch of student-run help desk, AICE Pathway endorsement, AP CSA and a data/AI elective added to registration for next year.

- Staff: deeper professional learning and knowledge sharing; pilot blending of in-person and technology-supported learning

- Systems: Expand access to advanced AI tools, tracking of how well students are meeting Portrait of Graduate goals.

Year 3 (2027-28) — *Hands-On & Career-Ready*

- Students: new data analytics electives, a 20-seat "AI Lab," paid internships, and micro-credentials.

- Staff: micro-credentials in AI instruction; continued curriculum redesign.

- Families: resources for families to see how AI is used in learning and how student information is protected.

Year 4 (2028-29) — *Polishing & Showcasing*

- Students: expanded summer programming.

- Staff: clear expectations for technology skills at each grade.

- Partnerships: regional showcase to present tech projects to the RWPS community; formalized agreements with higher education and industry.

Year 5 (2029-30) — *Making It Stick*

- Students: official AICE Flight Path endorsement on transcripts; possibility for new graduation requirements.

- Staff: AI and computing practices embedded into onboarding and leadership development.

- Systems: long-term sustainability through district budgets and external partnerships.

What Success Looks Like

By the end of Year 5, new AICE learning opportunities will be available to every student. In addition,

- **Students**: The majority of graduates will have advanced technology experiences on their transcripts.

- **Educators & Counselors**: Every educator will be trained and confident in supporting students towards meeting the goals outlined in the RWPS Portrait of a Graduate.

- **Systems**: RWPS will operate with coherent policies, staffing, and tools to sustain innovation well beyond the grant.

The Bottom Line

Flight Path 2030 represents a once-in-a-generation opportunity:

- **Philanthropy** jump-starts innovation via a generous gift from an alumnus to build momentum.

- **Educators** lead with new tools and confidence.

- **Students** gain access to skills and experiences that open doors to their future.

By 2030, this will no longer be a project — it will be who we are as a district. Together — as families, educators, and community partners — we will make Red Wing a leader in preparing students for the future.