

Computing, Data and AI: Skills for Every Winger

Flight Path 2030 helps Red Wing Public Schools students build computing, data fluency, responsible AI use, and real-world problem-solving skills. These skills can strengthen any Winger Flight Path and help students connect what they learn in school to future education, careers, and community life.

THE BIG IDEA

Students do not need to choose a technology career to benefit from these skills. Employers across industries increasingly value technological literacy, analytical thinking, creative problem-solving, and the ability to work responsibly with data and AI.

Explore. Apply. Advance.

Students and families should work with a RWHS counselor to build a plan that meets graduation requirements and aligns with the student's readiness, interests, and goals. Use these three steps to help students connect their interests, learning opportunities, and future goals:

EXPLORE

- Start with the career areas, questions, or problems that interest you.
- Build confidence with computing, data, and AI-related skills through courses and other opportunities.

APPLY

- Bring computing, data or responsible AI use into assignments, internships, capstones or other experiences.
- Use these skills while keeping your own reasoning, creativity and judgment at the center.

ADVANCE

- Build deeper skills through advanced coursework, certifications, AP, PSEO, or other college-level learning.
- Seek real-world experiences that strengthen your skills and support your future goals.

4-3-2-1

Within the Winger Flight Paths 4-3-2-1 model, you may incorporate computing, data, or AI-related learning through a Career Preparation Course, Career-Related Course or Activity, Passion Course, or Professional Engagement Opportunity.

What This Can Look Like

Computational thinking, data fluency, and responsible AI use are foundational Flight Path 2030 skills that can strengthen learning in every career area. For example:

Manufacturing & engineering Use computing, data and automation to solve problems, improve processes and support quality and precision.	Business & marketing Use data to understand audiences, make decisions and evaluate results, while using AI responsibly for research and communication.
Arts & design Use digital tools to create and revise work while considering originality, attribution, and the appropriate role of AI.	Health sciences Use data to recognize patterns and evaluate information while considering privacy, accuracy, ethics and human judgment.
Education & human services Use data and digital tools to understand needs, support people and make informed decisions while keeping human relationships at the center.	Science & environment Use data, modeling and digital tools to investigate questions, identify patterns and solve real-world problems.

INTERNSHIPS CAN BE CUSTOMIZED

Within the 4-3-2-1 model, an internship can serve as a Professional Engagement Opportunity. It does not need to be technology-focused: students can apply computing, data, or responsible AI skills to a workplace process, decision, or reflection.

Three Questions to Ask Students As They Plan

1. What are you interested in? Start with a career area, question, problem, or experience.
2. Where could these skills add value? Consider data, digital tools, computational thinking, or AI use.
3. What could you explore next? Consider a course, activity, internship, or other opportunity.

Keep exploring online

For current course offerings, student opportunities, postsecondary examples, and links, visit FP2030.RWPS.ORG