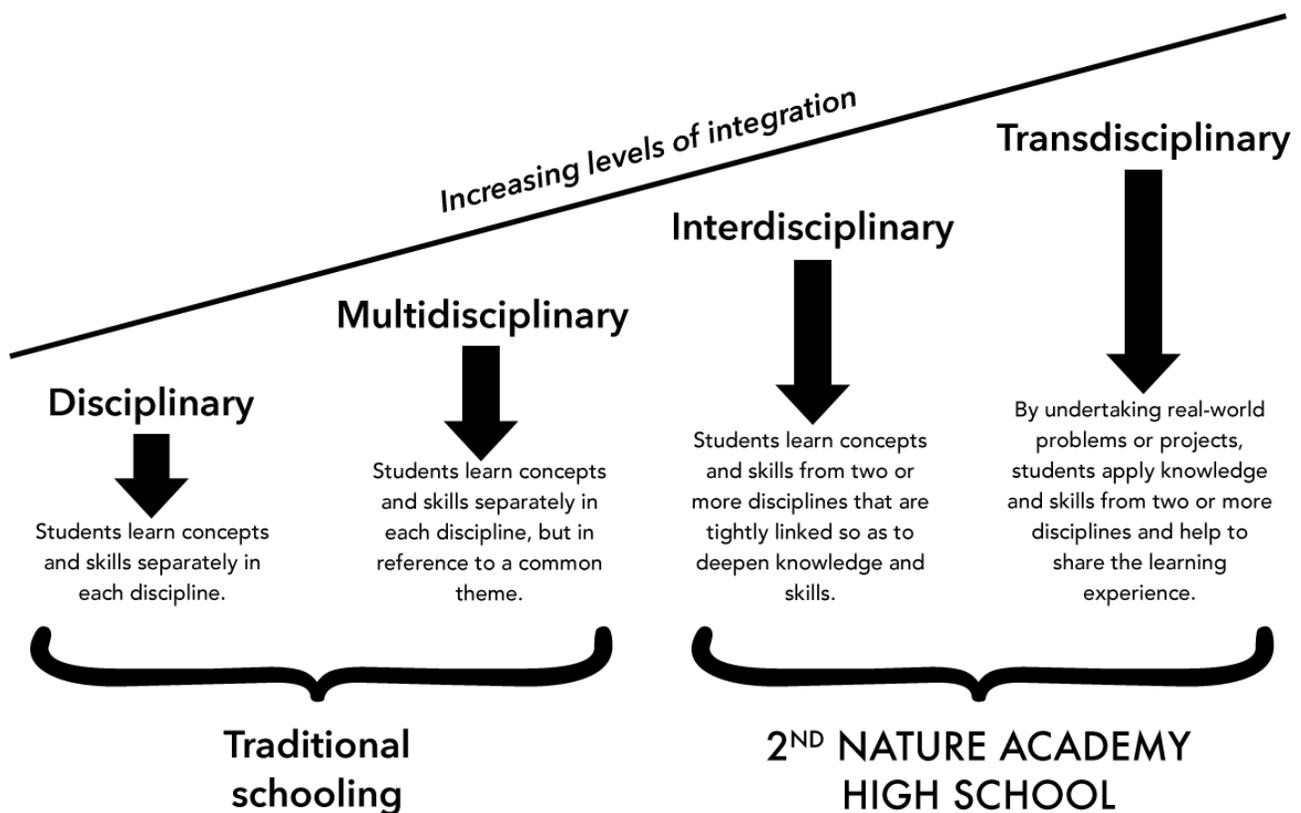




PHILOSOPHY

At 2nd Nature Academy High School, the curriculum operates on both an interdisciplinary and transdisciplinary model. An interdisciplinary approach teaches concepts and skills from two or more disciplines that are tightly linked so as to deepen knowledge and skills. A transdisciplinary approach requires students to undertake real world problems and projects, and apply skills and knowledge from two or more disciplines. This allows for a more authentic and purposeful learning experience, challenging the efficacy of traditional teaching methods and engaging students in real world problem-solving and experiential learning. Student autonomy and student-driven learning support increased motivation, improved decision-making abilities, and enhanced critical and creative thinking capacities.



While our model is both interdisciplinary and transdisciplinary, the following curriculum guides are divided by subject matter in order to give an overview of discipline-specific information, including skills taught, materials read, and potential outcomes and assessments. However, these curriculum guides operate not as required standards, but as frameworks for high school courses. These frameworks may adapt and change according to student and teacher interest, schoolwide activities, current events, etc.



Humanities

(English Language Arts, Social Studies)

Reading

These specific reading skills focus on the use of a variety of texts, of varying reading levels and complexities. Students will read both fiction and nonfiction texts. Students are expected to apply these skills across all individual subject areas. Students will gain knowledge of the following while enrolled at 2nd Nature Academy High School:

- Finding and citing evidence
- Close reading of texts
- Determine accuracy of texts
- Identify point of view, bias
- Identify themes
- Synthesis
- Analysis
- Variety of sources: fiction, non-fiction, primary, secondary, visual (photos, drawings, charts, maps, videos, etc.)

Examples of Text

Literature

- Plays
- Novels
- Novellas
- Short stories
- Poetry
- Graphic novels

Non-fiction

- Biographies
- Autobiographies
- Informational texts
- Primary sources
- Secondary sources
- Memoirs

Writing

These specific writing skills focus on a student's ability to produce types of writing that vary in style, audience and creativity. Students may produce any of the following:

- Claim supported with evidence
- Argumentative (can be discipline specific)
- Explanatory
- Narrative
- Technical (*Manuals*: instruction, policy, process, user; *Reports*: analysis, summary of longer reports; *Instructions* for assembling a product)
- Professional (job applications, resumes, cover letters, professional email correspondence)
- Writing process (pre-writing, planning, revising, editing, rewriting, reflection)

Language

Students will continue to develop their English Language skills, achieving practice and mastery of the following:

- Conventions
- Knowledge of language
- Language acquisition and use



Mathematics

The following mathematical skills are based on New Hampshire State Learning Standards. Students will be able to:

- Apply problem-solving processes, analytical thinking strategies, and quantitative reasoning skills to solve increasingly complex situations.
- Understand context of a problem and develop an assortment of strategies to solve it.
- Understand that there is often more than one method to solving a problem and determine the best approach for solving it.
- Explain the meaning of a problem and identify strategies to solve it.
- Analyze givens, constraints, relationships, and goals when solving a problem.
- Decipher which information is pertinent in order to solve a problem.
- Make conjectures about the meaning of a solution and the reasonableness of the answer.
- Monitor and evaluate progress and change course as necessary.
- Effectively solve real-world problems using a variety of strategies, critical thinking, and applicable tools and technology.
- Utilize mathematical reasoning and proof.
- Construct, justify, and critique logical mathematical arguments.
- Create and use representations to communicate ideas.
- Recognize, explore, and develop different approaches to solving a variety of mathematical problems.
- Use reasoning and proof throughout classroom discussion.

Science

The following science and engineering skills are based on Next Generation Science Standards and New Hampshire State Learning Standards. Students will be able to:

- Ask questions and defining problems.
- Engage in argument from evidence.
- Develop and use models.
- Plan and carry out investigations using a variety of methods.
- Use math and computational thinking.
- Construct explanations and design solutions.
- Analyze and interpret data.
- Obtain, evaluate, and communicate information.
- Explore scientific knowledge, acknowledging that it is based on empirical evidence, but also being open to revisions due to new emerging evidence.