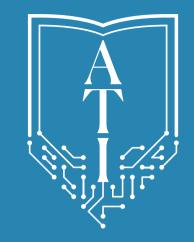
Academy of Thought and Industry



Program Overview

For thinkers and doers who can change the world

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Academy
of Thought
and Industry:
For Thinkers
and Doers Who
Can Change
the World



The future of school isn't about moving from one set of exams to the next. It's about becoming the person you want to be, and feeling fulfilled and supported along the way.

The Academy of Thought and Industry (ATI) is a Montessori-inspired middle and high school. Our unique program is rooted in a curriculum that emphasizes thinking and doing, to acquire deep knowledge and understanding. Students unlock their potential with the help of individualized coaching, low student to teacher ratios, and a supportive school community. They learn how to set goals and how to achieve them; they fall in love with learning; they combine deep rigorous academic study with the freedom to pursue projects based on interest, passion, and curiosity.

We believe that students, in the right environment, are capable of extraordinary learning and extraordinary work: and we help unlock that potential at ATI.

We Are Reimagining Adolescent Education

Most middle and high school students are not happy at school.
We want to change that.



- A 2020 study by Yale researchers found that nearly three-quarters of students report negative feelings towards school.
- According to a 2016 Gallup student poll
 of nearly one million students, enthusiasm
 for school dropped dramatically between
 fifth grade and twelfth grade.
- In another large-scale 2003 study, students were asked to record, several times a day, what they were doing and how they were feeling. The results revealed that children were unhappiest while they were at school, and happiest when out of school.

Now more than ever, students are feeling tired, stressed, and bored. They need an educational option that is appropriate for their developmental stage, and tailored to their individual needs.

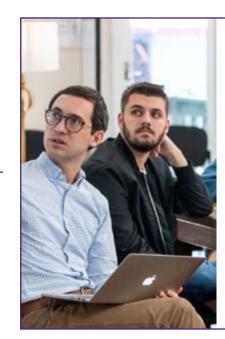
We Offer a Classical Education With a Modern Approach

Too often, parents and students face a choice between traditional schools
—lacking flexibility and individualization—
or "progressive schools" that fall short in delivering deep knowledge and an intentional curriculum. At ATI, we combine deep study of core subjects with a focus on real-world exploration and application. This transforms the school experience from disengaged participation to thriving and passionate learners who have an ever-increasing capacity for individual exploration. We call this the "third option".



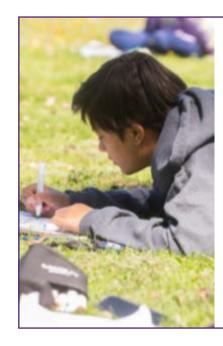
We are not a traditional school

Traditional schools are at odds with the needs of the adolescent: you are forced to conform to a system that emphasizes standardization and memorization. Instead of learning about your own unique needs as a growing, changing, striving individual, traditional schools teach you to meet the needs of the system itself.



We are not a progressive school

Progressive schools often allow you free rein to choose your own pursuits, moving from project to project, but without that deep attention to knowledge that would fully unlock your mind's potential.



We are the third option

We pursue the union of thought and industry, of the mind and the hand. Our students don't just memorize - they understand, apply, and integrate knowledge. Lessons are motivated by the world, and students apply their knowledge in pursuit of their own passions in the world.

A Montessoriinspired Middle and High School

Dr. Maria Montessori, Italian physician and revolutionary educator, is best known for her pioneering work in early childhood. While she wrote on the needs of the adolescent stage of development, she did not create a fully formulated system for educating at this stage. Her vision was centered on what she called "Erdkinder," or land-children. She imagined students leaving home in middle school to live on a rural farm, working collaboratively and achieving complete economic independence.

Today, most of our families aren't living a rural lifestyle - and the concept of Erdkinder doesn't feel realistic or practical. But what are the essential components of this vision of secondary education, and what could a modern Erdkinder look like?

Principle #1

Real work in the real world

Montessori's revolutionary contribution to education is the recognition that work is fundamental to all human beings, as a source of both utilitarian benefit and enduring meaning. All children seek out real work: but somewhere in the educational system, we are taught that work is undesirable. ATI seeks to encourage, and if necessary rekindle, the natural love of work.

Principle #2

Serve as a productive member of the community

Montessori called adolescents "social newborns." Teens are searching to find not just their own personal identity, but also their place in the world. Students want both the security of a community, and a place in the community where they are needed and valued.

Principle #3

Independence emerges out of both choice and rigor

Traditional education may be rigorous, but it can ignore the needs of the individual student. Progressive options may emphasize choice, but without the structure needed to apply knowledge. Montessori education in adolescence utilizes similar strategies to early childhood: mixed age classes based on skill and interest; uninterrupted work cycles to promote deep focus and agency; and developmentally appropriate work and materials that expand beyond the classroom and into the real world.

A Letter from Laura Mazer, Executive Director

Welcome to the Academy of Thought and Industry: we're so glad you're here! ATI is education not as it has been, but as it can be: something designed specifically for adolescents, something designed for life.

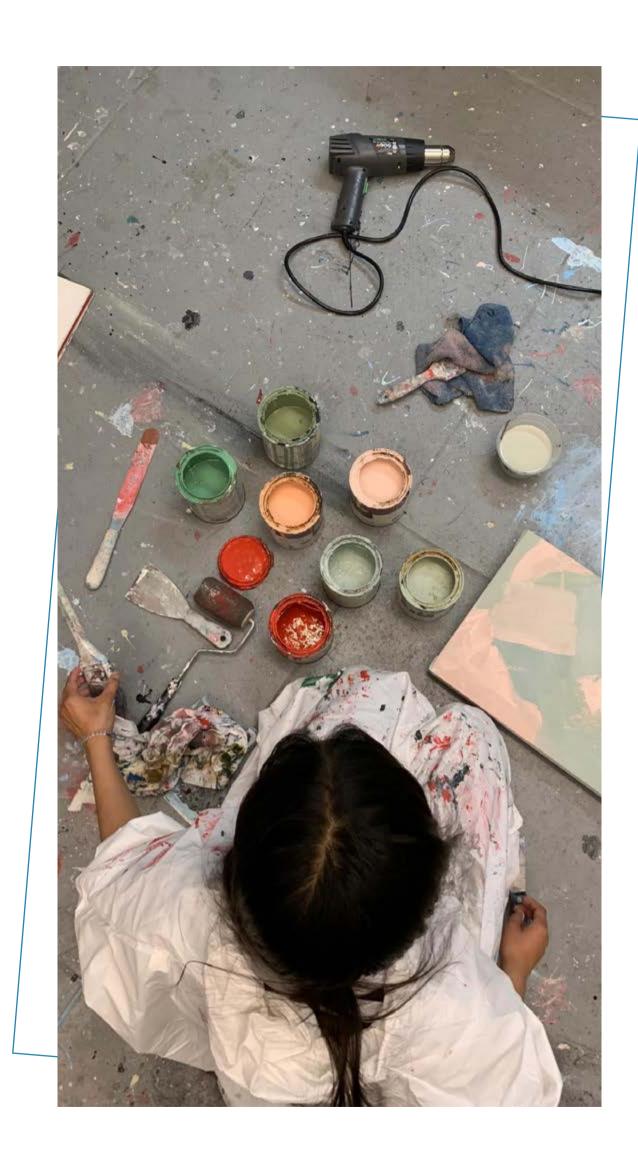
Adolescence is a period of intense physical and emotional growth.

You are transitioning from childhood to adulthood—from depending on your parents, family, and teachers to a space where you decide your own path. What an exciting journey, occasionally overwhelming, potentially fraught, inevitably profound. No matter where you spend these years, you



emerge on the other side having changed dramatically. In many ways, traditional schools are at odds with the needs of this period of change: you're forced to conform to a system that has at its core not your needs as a growing, changing, striving, individual—but the needs of the system itself. Progressive schools often allow you free rein to choose your own pursuits, skipping from project to project, but without that deep attention to knowledge that would fully unlock your mind's potential. The alternatives are: rigid

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structure where knowledge is abstracted from application, or free structure where applications are abstracted from knowledge.

The Academy of Thought and Industry is the third option. Here, we pursue the union of thought and industry, of the mind and the hand. Our students don't just memorize—they understand, by integrating and applying at every step.

At ATI, there is no conflict between the intellectual and the practical. Our students take film-making classes to actually make movies. They take economics courses because they are starting their own businesses—or more abstract economics because they want to understand the theories that make up the society in which they participate. One of our middle school classes in New York is running a thriving compost business; a high school student in Texas has a

professional photography studio with international clients. You might be asking:

Who are these incredible teenagers?

In some ways, our students are extraordinary. In other ways, they are the most natural and healthy people of all: they are unusual only in that they are actualizing the potential that is perfectly, universally ordinary. At ATI, you get to explore this period of transition into adulthood with graduated agency: each step you take here will open up greater choices, greater possibilities, and greater independence. But you will always have behind you the support and care of your coach, your guides, and your ATI community. Here, you can fully explore your own rapidly expanding self.

We can't wait to meet you.

LAURA MAZER, MD MHPE



Our Core Difference

What makes our program so unique? Our core pillars: a unique curriculum designed around the union of thought and industry, supported by individualized coaching and a tight-knit but global community.





Curriculum designed around thought and industry

Rather than an emphasis on rote memorization or standardized testing, all knowledge at ATI is deeply practical. Coursework is motivated by real-world problems and challenges—from Socratic discussions in literature courses, to cataloguing the Central Park bee population in science, to applying cross-disciplinary learning through entrepreneurship, outreach, visual and performing arts, volunteerism, internships, or more. Our programs are designed for thinkers and doers who want to develop themselves and change the world. It is this fusion of deep knowledge (thought) applied to real-world problems (industry) that captures our approach.



Coaching program

Adolescence is a period of intense physical and emotional growth. Students have the ability to set their own goals, sometimes for the first time, and to explore their own values, and control their own schedules—and these tasks are challenging at any age! While the increasing independence and freedom is both desirable and necessary, it requires support and planning. Every student at ATI is paired with a coach, a supportive guide who serves as thought partner and mentor. The coach's role, over the course of the school years, is to make herself obsolete: as the student gains the social, emotional, and cognitive skills to enable her to serve as her own coach going forward. This is not a tutor or a guidance counselor; the coach is a powerful and unique partner to help each student unlock his or her full potential.



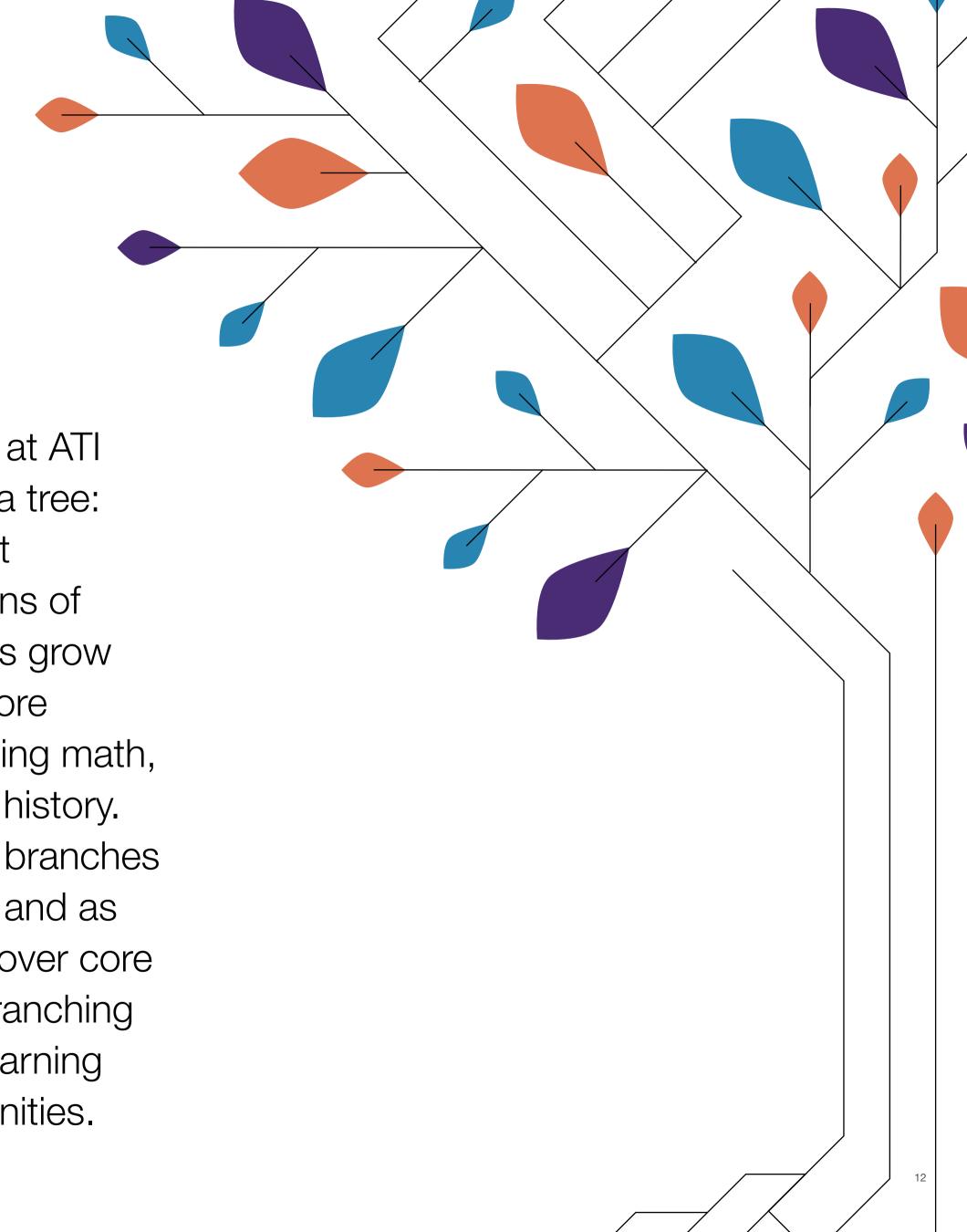
Close-knit community

Adolescence is a time for social development and exploration of a student's place in the larger world. At ATI, students and guides work together to co-create the school community in mixed age classrooms. This includes writing school constitutions, planning morning and afternoon meetings, and creating traditions. Each student helps define the school's culture. But outside each small school is a bigger community, and our students actively engage there, too. Each school is connected to the local community: students in New York volunteer in Central Park; students in Austin have internships with the local Congressman and in the Botanical Gardens. And connecting them all is the ATI network: opening up the resources of a global network with the community of a small local school. Students in Florida can take film making taught by a working director and screenwriter in Los Angeles; groups of students can collaborate for competitions, entrepreneurship, or interest groups. The ATI community combines the best of the small school and the resources of the large network.

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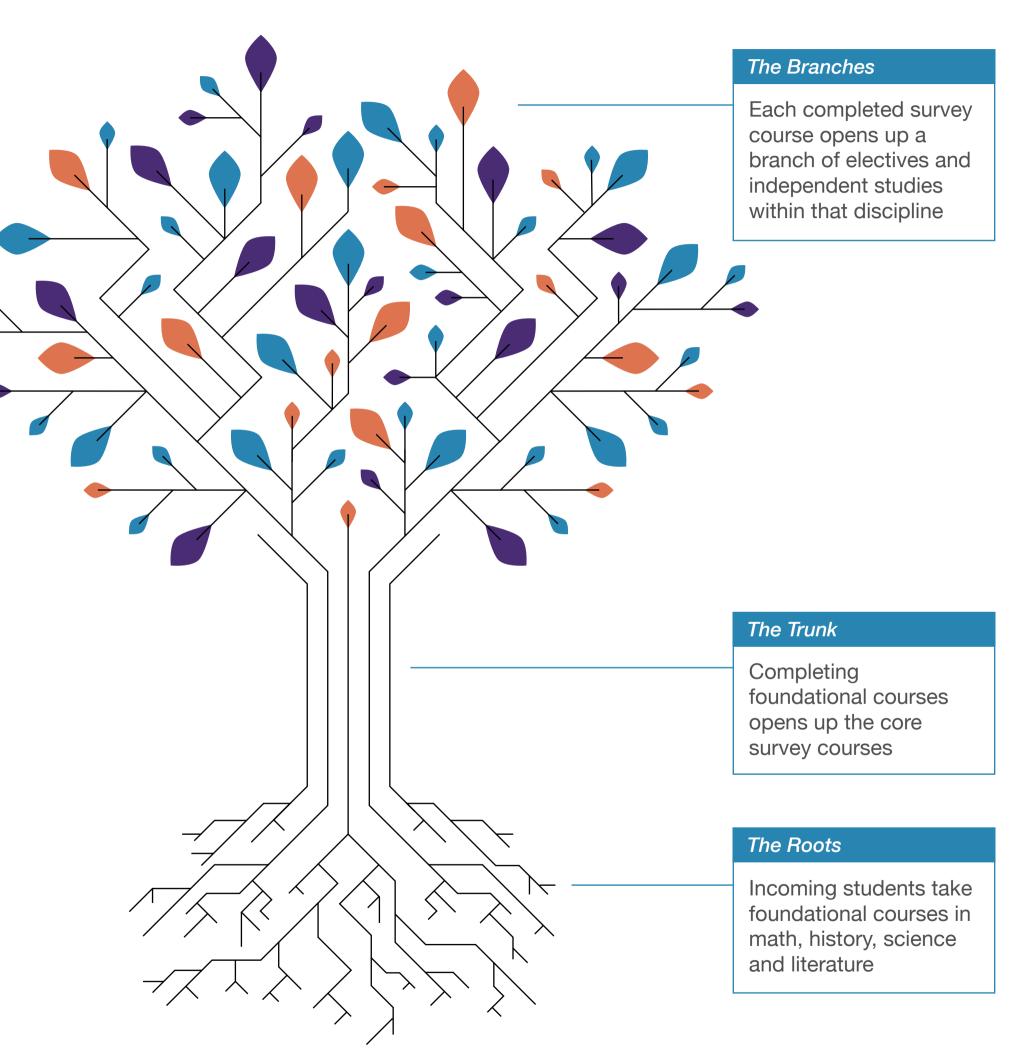
Our Unique Approach to Curriculum

A student's experience at ATI grows like the roots of a tree: the first quarter is spent exploring the foundations of knowledge. These roots grow into a strong trunk of core subject courses, including math, science, literature, and history. Each course opens up branches for deeper exploration, and as students gain mastery over core curriculum they start branching off into individualized learning and real-world opportunities.



ATI Curricular Tree

Recognizing
the hierarchy of
knowledge with
constant application
of learnings in the
real world

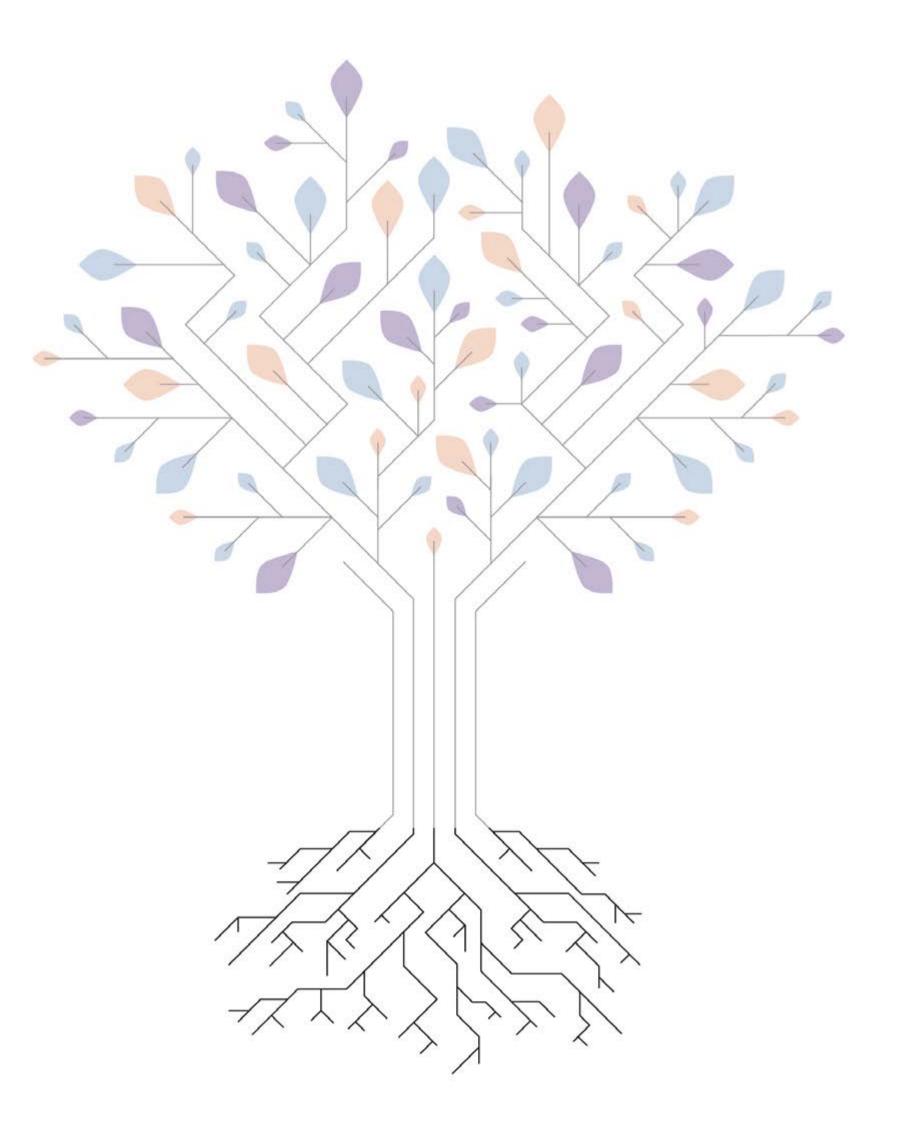


I. The Roots: Foundations Quarter

When students start at ATI, in middle or high school, they embark on a foundations quarter. This 8-week period immerses them in the school's community, and helps ensure that every student can thrive in a self-directed environment.

Each course during this 8-week period has the same objectives:

O Create a culture of work: Students join ATI from varied backgrounds, and may or may not be prepared for a self-directed learning approach. The foundations courses are a period to determine how much structure an individual student might need to begin their journey at ATI.



- - Create motivation and engagement with material: Students often come to ATI with a very specific view of "school." They may find some or all areas of curriculum boring, or inaccessible to them (the student who declares: "I can't do math!"). The foundations courses are designed to showcase the "why" of each discipline. Why does history matter? Why is math exciting? And to do this in a way that is very different from prior experiences in a classroom.
 - o Set students on a path towards independent inquiry: In order to guide students within a curricular tree with so many options, we need a comprehensive assessment of each student's current knowledge, skills, and attitudes. This includes content knowledge as well as social and emotional skills. Rather than a one-day standardized test, we spend the entire first quarter getting to know each student holistically, to ensure that they enter the program with full visibility.

Example of middle school foundations courses:



Foundation of Thought And Industry

Coaching, goal-setting, identifying personal values, mindset and reflections



Foundations in Language and Culture

Unlocking the World



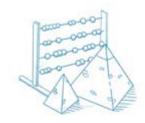
Literature Foundation

Literary Life Lessons



History Foundation

Historian as Detective



Math Foundation

Our Patternful World



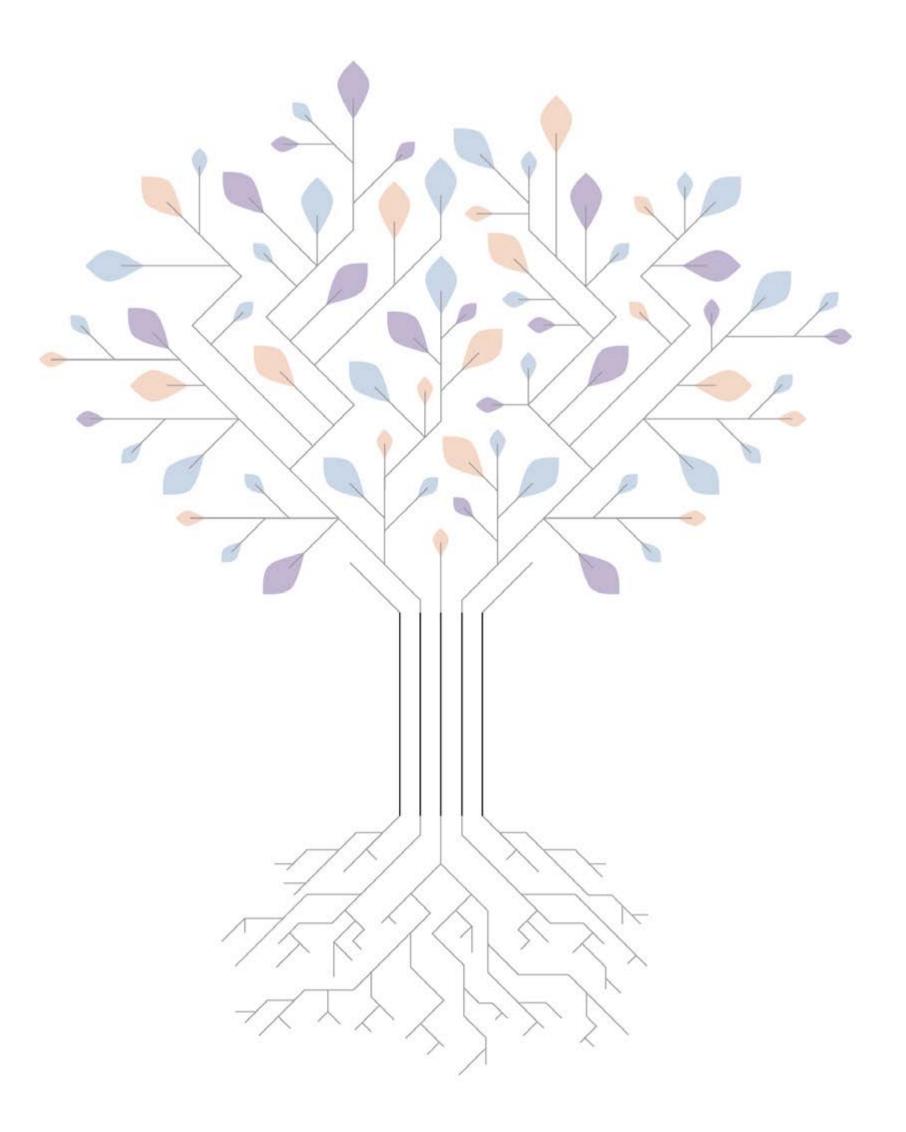
Science Foundation

How Science Works

II. The Trunk

After the foundation quarter is complete, students move into year-long courses, covering fundamental modules within each discipline.

Trunk courses are interdisciplinary and skills-based. They cover the core topics expected of middle and high school students, but in a way that is grounded in real-life questions and curiosity. Students are motivated to gain new skills in order to grapple with challenging real-world problems, and the educational objectives are interwoven between core topics.



Sample Coursework

Middle School (Years 1-3)					
	YEAR 1 Foundations courses +3 full year electives	YEAR 2 4 full-year electives in each subject area	YEAR 3 4 full-year electives in each subject area		
Literature & Writing	 Study on "Developing Empathy" Study on "Persuasion" Study "Acting with Integrity" Analysis workshop Creative writing workshop + Literary study on "Celebrating your Unique Traits" Creative writing workshop + Literary study on "Self-Efficacy" 	 Study on "Standing Up for Your Values" Study on "Justice" Study on "Overcoming Adversity" Analysis workshop Creative writing workshop + Literary study on "Treating Others with Dignity" 	 Study on "Seeking the Truth" Study on "Questioning Authority" Study on "Dangers of Conformity" Analysis workshop Creative writing workshop + Literary study on "Determination Toward a Purpose" 8-week capstone project 		
History	 The Big History Story of the World Early Humans Cities, Societies, Empires 	 Regional Webs US: Colonial Period US: Revolutionary and Early Republican Period US: Post-Civil War Modernization 	 The First Global Age The Long 19thCentury The Great Convergence and Divergence Math and Science Capstone or MS History Immersive 		
Science	 Introduction to Earth Science: The Way the Earth Works Introduction to Biology: The Way Life Works Introduction to Matter: The Way the Universe Works 	Physical Science Matter and Its interactions Waves I Climate Change The Earth and the Moon Energy I Motion and Forces Earth Science Earth Science Earth's Surface and Navigation The World's Greatest navigators Climate Change The Earth and the Moon Extreme Weather Events Earth and Energy Sources Earth and Energy Sources II The Water Cycle Earth Science Biological Classification Introduction to Engineering Dest Genetics/Order and Information Cell Theory Ecosystems and Energy Flow Human Origins Botany and Inheritance II Embryology and CRISPR			
Math	 Area and Surface Area: The Shape of Space Introducing Ratios: The Craft Code of Cooking Unit Rates and Percentages: Making Money Grow Fraction and Decimal Arithmetic: Part, Piece, Portion Expressions and Equations: The Beauty of Balance Positive and Negative Numbers: Order, Distance, Depth 	 Scale Drawings: You are the Designer Introducing Proportional Relationships: Frames and Snapshots Measuring Circles: Welcome to Euclid Proportional Relationships and Percentages: You are the Designerand now the Architect Operations and Integers: Floats and Anchors Expressions, Equations, Inequalities: Balancing the Scale Angles, Triangles, Prisms: You are the Architectand now the Builder! Probability and Sampling: Games of Chance, Experiments of Probability 	 Rigid Transformations and Congruence: The Geometry of PacMan and Minecraft Dilations, Similarity, Slope: Amazing Coasters Linear Equations and Systems: Money Math 101 Functions and Volume: Math in the Gym, Math on the Court Exponents and Scientific Notation: Solar System Math 		
Culture and Communication	 Language: Verbal and Non-verbal Social Organization: Family & Governance Customs: Beliefs, Attitudes, Values, Faith, Religion, Tradition, Rituals, and Food Expression: Music, Dance, Art, Literature, Poetry, Theatre, Culminating Project in Culture & Communication 				

Sample Coursework

High School (Years 1-4)					
	YEAR 1	YEAR 2	YEAR 3	YEAR 4	
Literature: How Stories Shape our Lives	 Literature study on "Dangers of Conformity" Literature study on "Justice" Literature study on "Seeking the Truth" Literature study on "Identity and Society" Literary analysis workshop with choice texts Argumentation workshop with choice texts 	 Creative writing workshop + Literary study Critical lens + choose: Human Nature Ambition Self-efficacy Defining good and evil Freedom, Power,			
Liberal Arts: Understanding the Human Condition			The Sources of KnowledgeSex and Gender in Human LifeHuman Psychology	The Sources of MoralityRace in Human LifeModern Science and Human Nature	
Science	 Earth Science Earth's Materials Sculpting Earth's Surfaces Forces Within Earth's Epic History Earth's Systems Earth's Place in the Universe 	 Biology The Chemistry of Life The Cell Genetics Evolutionary Processes Biological Diversity Ecology 	 Chemistry The Basics of Chemistry All About Matter Reaction Chemistry Physics and Chemistry Bridge 	 Physics Understanding the Math Behind Movement Newton: The Genius the Explained Forces Our Lives and Our Machines The Science of Art From Lightning to Cars So, Everything Was Wrong, Einstein? 	
History	World History How Life Came to Be Early Humans Agriculture and Civilization Expansion and Interconnection Accelerations History and Literature	 American History Colonial-American Era From American Revolution to the US Republic Westward, Expansion, US Civil War and Republic Industrial Revolution, Gilded Age and Progressive Era World War I, Great Depression and World War II Post-World War II Economic, Social and Political Change 			
Math (Cont.)	 Algebra I Expressions and Equations: Expressions for Solving Life Graphing Functions: Graphs That Rule the World Exponential Functions: Hollywood Stylin' Quadratic Functions: Let's Go to Space Transformations: More Than Meets the Eye Measurements and Dimensions: From Mechanics to Physicists Modeling 		 Geometry Logic: Win Every ArgumentEver Intro to Geometry: Our World of Shape Transformations: Video Games We Assimilarity: The Matching Game Modeling Circles: From Earth Quakes to GPS 		

(Cont.) Math	Algebra II - Trigonometry	Pre-Calculus	Pre-Calculus
	Sequences: Financing Your Way to Success	 Functions and Models: Creating More Efficiency 	Functions Graphs and Models:
	 Quadratic and Rational Functions: Roller Coasters of Functions 	 Periodic Functions: Radio Frequencies 	 Differentiation and its Application:
	Complex Numbers: How Complex Can We Get?	 Applications of Trigonometry: 	 Exponentials and Logarithms
	 Exponential Functions: Medical Math 	Aerospace and The Bermuda Triangle	 Integration and its Application
	 Transformations: Transforming Our World 	 Data Fitting: Ending Pandemics 	
	Trigonometry: Periodic Math	Vectors and Conics: Nasa and Mars	
	Spanish I / French I	Spanish II / French II	
	 Language basics: everyday items, basic sentences, 	 Travel: directions, the imperative, weather language, ordinal numbers. 	
	gender and number agreement, colors.	 Past and Future: past tense, future tense, indirect object pronouns, 	
Acquired • Greetings and introductions: greetings, family imperfect tense.		imperfect tense.	
Languages	relationships, question words, clothing.	 Friends and social life: direct and indirect objects, calendar terms, 	
	 Work and school: locations and time, present tense, 	numbers, possession.	
	body parts, reflexive verbs, numbers.	 Dining and vacation: expressing emotions, food and restaurant 	
	 Shopping: compound sentences, directions, comparatives. 	language, sequencing events.	



III.The Branches

As students advance, they have an ever-increasing set of optional courses to explore areas of personal interest.

These courses can be offered in their own community, or through the resources of the global network: learning drawing and filmmaking from professional artists working in LA; exploring the history of human progress with philosophers of science in San Francisco; studying human anatomy with a surgeon in Texas. Wherever a student is physically located, the network brings experts to them.

Students are empowered to find their own passions and work with their coach to chart their individual curricular path. Some examples of branch courses include:

1. Elective courses

- Progress Studies for Young Scholars
- The Theory of Enchantment
- Film making and script writing

2. Internships

- Early childhood education: Guidepost Montessori
- Government: Rep. Lloyd Doggett
- Healthcare: physical therapy, recovery center, surgical center, and more
- STEM: Software design and web design, nature and science center
- Art: Umlauf Sculpture Garden

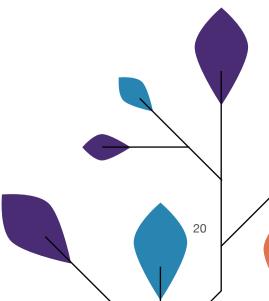
3. Entrepreneurship

Students can build a curriculum designed to support their own independent ideas in business.

4. Independent study projects

With a mentor, students can propose and create an elective project dedicated to almost anything. Some recent examples include:

- Photography
- Fashion design
- Children's literature



Coaching

Every student at ATI is paired with a coach throughout the educational process. This coaching program is unique and impactful. Working with developmental psychologists and philosophers, we have built a program that explicitly teaches those elements of growing up so rarely named: the elements of self-knowledge, of habits of character, of crafting your own life as a capable and joyful adult.

Students are coached towards three interrelated but flexible mindsets.
A coach helps the student internalize these, so that they leave ATI ready to thrive in the world at large:

That her life is hers to live on her own terms. In other words, she is the ultimate authority on what goals to pursue, without external permission or validation.

Self-efficacy

That she is capable of, and responsible for, shaping and directing her own life through self-directed work.

Self-creation

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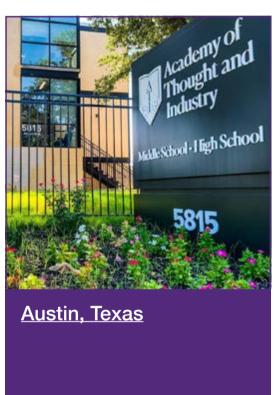
Finally, that she feels capable of, and responsible for, actively monitoring and managing her own thoughts, emotions, motivations, and mindset.

ATI graduates face a changing and unpredictable world. They will require the ability to manage, direct, and, when needed, retrain their own psychology. Throughout schooling, coaches scaffold the process by which the teen becomes the preparer and manager of her own environment, building self-awareness, and encouraging increasing agency over time. This process is tailored to each individual student, recognizing that everyone will have unique strengths and challenges.

Globally Connected Network

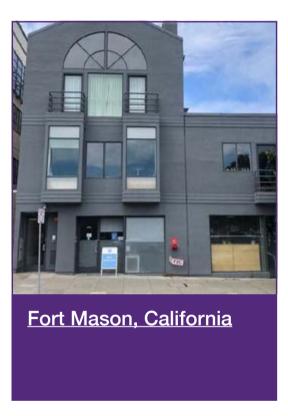
Every ATI school, in-person or online, is a tight-knit community that is also connected to a global network. The network allows you to learn from industry experts, take part in unique electives, find mentors in your field and connect with peers around the country and world

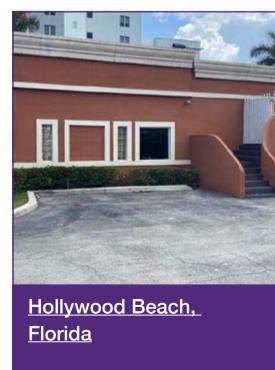


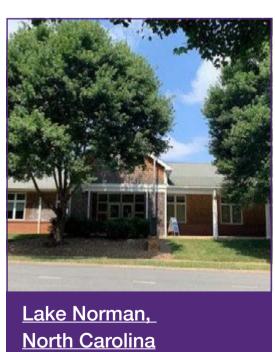


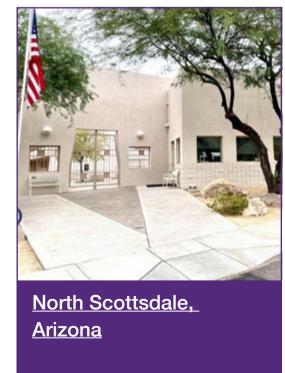
















Virtual School: Study anytime, anywhere

The only difference between our brick-and-mortar schools and our virtual school is that one is.... well, virtual.

ATI virtual brings our middle and high school programs wherever you are. Students experience the same immersive curriculum led by expert guides as our brick & mortar campuses, with the benefits of the broader ATI network. Whether you are often on-themove or looking for a high-fidelity online alternative, we're delivering personalized education directly to you.



What we are:	What we are not:
 Live, small classes Flexible schedules Open work periods Close-knit, supportive community 	 Prerecorded lectures Rigid schedules Hours of zoom time Isolated learning

Learn more about our virtual school here

Serving both middle and high school students, our virtual school delivers a powerful education for independence through our:

- Montessori-based curriculum
- Coaching program designed by experts
- Individualized approach to learning
- Flexible and student-led work supported by guides and coaches

Our virtual sudents recieve quarterly packages of materials, from science lab kits to journals that support them in their learning.



Right from the start, the ATI admissions team wanted to talk to my daughters directly – it had nothing to do with me. They wanted to hear about my girls' dreams, fears, strengths, weaknesses. The program is built around children. Why you think about middle school in general, it tends to assume so much control over children and be adult-led. When my daughters had their first day of school, Sarah said, "Mom, these guides trust us. None of my teachers have ever talked to me like I am capable before."

- Jessie B.
Virtual school Parent

After ATI: Where are our graduates now?

The ultimate goal at ATI is to create students who thrive: living happy, fulfilled, productive lives.

That requires students who can identify their own values, set specific goals, and learn how to achieve them. Our students leave prepared for a variety of paths in life, and our responsibility is to support them in identifying and starting that path.

Many of our students choose to pursue higher education, and to date we have a 100% placement rate for college-bound seniors. In addition to their coach and guides, students work with a full-time, licensed college counselor to guide them through the application process.

Here's where you can find some of our recent graduates:

- University of San Francisco Coding and Al
- University of Texas at Austin Electrical Engineering
- Bard College Photography, Humanities
- St. Martin's (London) Art and Design
- O Bates Political Science
- Williamette Nutrition
- Skidmore Philosophy
- Rose Hulman Institute of Technology -Electrical Engineering
- Smith Biomechanical Engineering
- The Make School Coding
- Quest University (Canada) Game Design

Ready to get started?

We accept rolling admissions throughout the academic year. Reach out to our team and we will guide you through the admissions process which can include:

1 Program overview
Join one of our weekly program
overviews (held virtually) to learn
more about ATI.
calendly.com/ati-admissions

2 School tour

Meet our faculty on campus inperson or virtually visit a class, and have your questions answered.

3 Shadow day

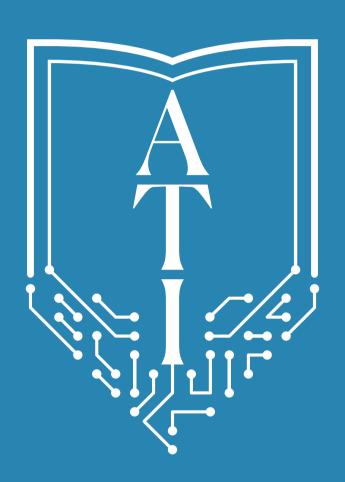
Our shadow day allows prospective students to have an authentic day-in-the-life experience of our school, to connect with current students and staff, and to engage in our learning community.

Contact us directly to get started! admissions@thoughtandindustry.com

Apply

When you are ready, we encourage you to apply right away to secure your spot for the upcoming academic year. We offer rolling admissions at all of our full-time programs, both in person and online, and accept transfer students. We offer generous financial aid based on demonstrated need and would like to partner with you to help you choose ATI.

We can't wait to meet you!



An education designed for life

thoughtandindustry.com