# QUADRAT ACADEMY

Progressive secondary education (11-18)

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Quadrat Academy is a progressive education school for ages 11-18. We are the only Montessori based secondary school in Philadelphia. We believe in a fundamental change in the current education approach. Our students take charge of their learning process and develop their individual discovery journey.

We pride ourselves in creating innovative education formats, leveraging the latest trends in experiential education, technology, entrepreneurship, project-based learning, and design thinking, we create a vibrant and stimulating experience for students.

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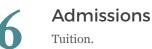
The Founding Team Founder word.

**Our Principles** Individualized Development. Think not Memorize. Love what you do.

**Our Approach to Education** Comprehensive and Integrated learning.

#### **Academics**

I. Core curriculum. II. Innovation Lab. III. Real-Life Experience.







# FOUNDER WORD

#### WE LIVE IN A WORLD OF EXPONENTIAL CHANGE...

Most jobs that our kids will obtain do not exist today. Future lifestyle and work requirements demand a new skill set. Today's youth has to be ready for an era of

technology, scarcity of resources and growing speed of innovation. Traditional schools are limited to academic subjects, neglecting the emotional, spiritual and social development. One hat does not fit all in the education approach. This is why we set out to create the Quadrat Academy, a place where students are free to create and explore their own potential. We are committed to create future innovators one student at a time. And we will embark on this journey together. Are you ready?

# EDUCATION IS NOT THE LEARNING OF FACTS, BUT THE TRAINING OF THE MIND TO THINK.

Albert Eistein

# THE FOUNDING TEAM



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#### SVETLANA TIKHONOV

Founder

# (C)

#### MARCELO BEDOYA

Co-Founder. Head of Experiential education



WARREN JONES Head of Innovation Lab



JOSH THORNTON Head of Social Media, Film and Photography



# OUR COMMITMENT

Develop future entrepreneurs, critical thinkers and innovators that are ready for a life long journey of exponential growth.

Our students embrace the learning process as a personal lifestyle. Quadrat Academy allows students to explore, make mistakes and maximize their potential in a safe and supporting environment.

### INDIVIDUALIZED DEVELOPMENT

Each child has his or her unique abilities which inform their speed of learning. Our job is to identify and accelerate individual strengths and use them as motivators.

### LOVE WHAT YOU DO

Children are creative and uninhibited by nature, our job is to allow them to innovate, feel success, and develop a passion for everything they do. True passion has no limits.



### THINK NOT MEMORIZE

It is impossible in today's society to know every required skill, every coding language or anticipate future vocational needs. The only true way to prepare our children for the future is the ability to think, formulate questions and learn independently.

## OUR APPROACH TO EDUCATION

Our guided self-study approach builds on the fundamentals introduced by Dr. Montessori, including mixed age classrooms that promote peer learning, uninterrupted blocks of work time, and guided work activities.

Building on the initial principles, we leverage innovative learning formats, including online tools and libraries, robotics, startups and real-life experiences. Our curriculum incorporates national, state and International Baccalaureate (IB) standards for college preparatory programs and individual advanced studies tailored for each student.



#### INDIVIDUAL STUDY | GUIDED LEARNING | PEER ACTIVITIES





# ACADEMICS

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### I. CORE CURRICULUM

Our curriculum is built on the fundamentals of the liberal arts education, a combination of the arts, social and physical sciences, mathematics, literature, and humanities. Our high school curriculum is designed to help students achieve overall college and career readiness.



# Science, Social Sciences, and Geography:

Integrated themes from studies in natural and cultural history, including interdependency, evolution, life cycles, matter and energy, behavior and culture, health, agriculture, government, manufacturing, communication, world systems, and others, in the context of social responsibility and communities.



#### Language Arts:

Develop confidence in self-expression via observations, debates, theater, video, photography, essays, play-writing, poetry, and short stories; explores related historical and philosophical material through literature utilizing components of style, genre, characterization, interpretation, and the art of discussion. Includes second language and grammar studies..



#### Mathematics:

Leverage logic, mathematics and critical thinking skills to solve problems in relation to a variety of challenges, from practical money transactions to algebraic relationships; explores in-depth numbers, properties, higher measurement, geometric proofs, and algebraic equations.

#### The Arts:

Students utilize a discipline-based arts education, including social arts, manual arts, physical arts and fine arts. The focus on individual artistic areas of painting, acting, singing, composing, photography, dance, and sculpture. The approach also focuses on general education for aesthetic literacy which integrates the arts with other academic subjects.



### LAB

Our laboratory is a safe environment where students can experiment, create and innovate. Exploring topics of sustainable energy, smart homes, transportation, urbanism and health, students will leverage their progressive knowledge of science, robotics, technology, and applied mathematics to create prototypes, conduct experiments and build products.

The laboratory environment will enable students to develop a STEAM skill set, i.e., experience science, technology, engineering, art and applied mathematics through hands on projects. Laboratory work is fully integrated into individual goals and the broader school curriculum.

#### **TOPICS**:

Sustainable energy, smart homes, transportation, urbanism and health, and others.. Students will leverage their progressive knowledge of science, robotics, technology, and applied mathematics to create prototypes, conduct experiments and build products. Each lab project will provide students an opportunity to learn about the scientific options and social implications of sustainability.

#### BUILDING SUSTAINABLE COMMUNITIES OF TOMORROW (SCOT)

Each SCOT lab will tackle a real-world sustainability project and will introduce technologies such as computer aided design, next generation solar, autonomous vehicles, smart infrastructure and robotics.

#### AUTONOMOUS VEHICLES (AV)

Students will use CAD to upgrade a Segway and make it remotely controllable. They will also convert it to directly use solar (DC electric) power. Finally, they will then discuss options for use in sustainable communities such as autonomous delivery vehicles, farm and household robots, computer aided manufacturing.

## III. REAL-LIFE EXPERIENCE

We believe the best way to learn is to experience. Students should be fully integrated into the life of the school, community and experience from an early age what it means to be a contributing member of the society. We provide an unconventional environment for students to work, create and learn both inside and outside the school.



#### School Life:

Students participate in day-to-day life of the school, for example, run social media campaigns, help design classrooms, build products and run the school store, designing innovating teaching formats, and many others school activities.



#### Students create individual and group startups, taking them from ideation to execution and growth. Students also have an opportunity to work with the local startups via an apprenticeship model and learn from top entrepreneurs in the area.

#### Volunteering And Community

Giving back to the community is an essential part of the learning experience. Students participate in a variety of volunteer projects, learning to help others, organize and lead volunteer work and support each other.



#### Environmental Education:

From gardening to climate change, students learn how to grow their own food, take care of plants and build a relationship with the environment. The objective is to understand their role in the environment and learn the fundamentals of the ecosystem.



#### Adventure trips:

Travel is the best way to experience new cultures, places, languages and understand different perspectives. A variety of outdoor adventure and cultural trips are organized to explore, face challenges, both physical and social, and experience new and exciting things outside of the every-day familiar environment.

# ADMISSIONS

WELCOME! WE LOOK FORWARD TO MEETING YOU AND HEARING YOUR STORY.

#### 1. Make an appointment.

Please call our Admissions Office at 267.997.7744 or email admissions@quadratacademy.com to schedule

# 2. Come for your parent/student meeting.

Meet our team, tell us about your child and learn about our school.

# 4. Await the school's admissions decision.

Admission to Quadrat Academy is determined after careful consideration of the appropriate placement of each student. We offer rolling admissions, most children begin with the new semester. Criteria for acceptance are based on the student's age, readiness and the parents' commitment to our philosophy.

Families of diverse backgrounds are encouraged to apply, as we strive to build an inclusive community of families from all over the world.

#### 3. Submit an application.

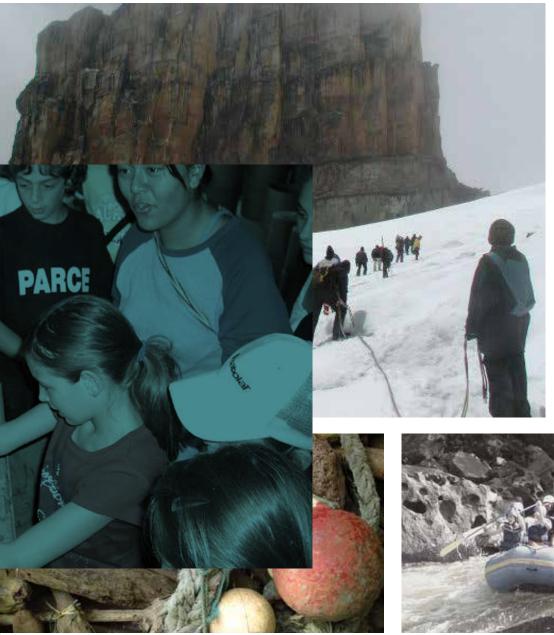
Complete the application provided by our Admisssions Office. Send it to the Admissions Office with your \$100 application fee.



# WHERE IS THE **BOOK IN WHICH** THE TEACHER **CAN READ ABOUT** WHAT TEACHING **IS? THE CHILDREN** THEMSELVES ARE THIS BOOK.



Rudolf Steiner



learning with real experiences becomes an element of change and transformation and awareness with the environment.



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#### QuadratAcademy.com