

ARCHITECTURE

Architecture at Macademia introduces young people aged 12+ to what it's really like to be an architect. Students explore how buildings are designed, how cities work, and how spaces respond to people and environment, while developing practical skills in drawing, model making, and design thinking.

The course is structured into six standalone modules, each running as a 6-week block (2-hour sessions). Modules can be taken in sequence or mixed with other subjects, allowing a flexible learning journey.

Through hands-on projects, students design their own architectural proposal, building skills that support GCSE and A-Level studies while creating strong portfolio work and preparing for university-level learning.

Introduction to Architecture

1. What architects do and why buildings matter
2. Understanding space, scale and proportion
3. Reading buildings and places
4. Plans, sections and elevations (intro)
5. Materials and structure basics
6. Design review and reflection

Site & Environment

1. Site analysis and context
2. Light, orientation and climate
3. Community and cultural context
4. Sustainable architectural thinking
5. Landscape and public space
6. Site-responsive design proposal

Architectural History & Styles

1. Ancient and classical architecture
2. Gothic, Renaissance and historic styles
3. Modernism and post-war design
4. Contemporary and global architecture
5. Analysing architectural language
6. Style-inspired design presentation

Urban Design & Cities

1. How cities work
2. Streets, movement and public realm
3. Housing, density and mixed use
4. Transport and accessibility
5. Community-focused design
6. Urban design presentation

The Design Process

1. Understanding a brief
2. Concept development and sketching
3. User needs and spatial planning
4. Developing ideas through models
5. Drawing and visual communication
6. Design presentation and critique

Interior Architecture & Adaptive Reuse

1. Interior space and function
2. Lighting, materials and atmosphere
3. Reusing existing buildings
4. Spatial planning and circulation
5. Interior model-making
6. Final interior design presentation

