CIGNITION

OUR APPROACH TO K-12 MATH INSTRUCTION

We take an inquiry-centered and collaborative approach to teaching and learning mathematics. Students will expand their conceptual understanding through the development of a robust cognitive framework representing the numerous and interwoven relationships between mathematical ideas, patterns, and procedures. They will also take the academic and collaboration skills they've learned through application and make them transferable to different situations. Tutors will monitor student progress throughout the program.

Algebra | **Number Theory** | **Geometry** | **Arithmetic** | **& Much More**

Overview

Lessons feature differentiated instructional practice and research-based supports. During each tutoring session, the tutor asks high-level questions to trigger curiosity and allow students to take the lead in working through problems. This allows students to develop a conceptual understanding of the material and build confidence engaging in discussions focused on mathematical strategies, patterns, and explanations.

Our inquiry-style problems enable students to connect to the content through topics of interest to them. Lessons allow students to focus on open-ended grade level problems designed to strengthen students' knowledge by providing an opportunity to think deeply about problems, explain their reasoning to others, and compare and contrast different ways of reasoning.

Lesson Plan Examples

Elementary School

More, Fewer & the Same (K.CC.C.6)

Middle School

Integer Operations with Hot Air Balloon (7.NS.A.1d)

High School

How Many Pennies? (HSF.IF.C.9)