

# At Home Group Tutoring

## TOPICS AND SAMPLE LESSONS

This program is designed to reinforce core concepts from previous learning while equipping students with new skills tailored to their current grade level. Below is an overview of the topics each group will cover throughout the course.

Our experienced instructors will begin by facilitating student understanding through interactive lessons and hands-on activities on relationships between expressions, equations, and linear equations. Students will then explore function notation and modeling real-world linear situations. Lastly, students will engage with parabolas and quadratic situations. Students will develop their problem-solving skills and learn how to approach challenging math problems with confidence.

- Function Notation and Linear Equations
- Exponential Modeling
- Quadratic Equations and Parabolas

Week	Session	Topic
1	1	Group Building & Function Notation
1	2	Group Building & Domain and Range
2	3	Linear Functions with Rules, Tables, and Graphs
2	4	Real World Linear Modeling and Marbleslides
3	5	Linear and Exponential Comparisons
3	6	Exponential Growth and Decay
4	7	Finding the Multiplier/Matching Points to an Exponential Curve
4	8	Exponential Applications
5	9	Parabolas and Graphing Quadratics

5	10	Marbleslides with Parabolas
6	11	Quadratic Modeling
6	12	Quadratic Situations and Equations
7	13	Methods of Solving Quadratic Equations Part 1
7	14	Methods of Solving Quadratic Equations Part 2
8	15	Writing Rules for Linear, Quadratic, and Exponential
8	16	Final Reflection of Learning Project

## Sample Lessons

Below are links to a few sample lessons that your student(s) may work on throughout the 8-week program. These lessons are designed to encourage group discussion and allow students to work with digital manipulatives on screen. Remember, these are just samples of lessons and, thus, are quite a bit shorter than what will be covered in a 60-minute session.

- [Function Notation and Linear Equations](#)
- [Exponential Modeling](#)
- [Quadratic Equations and Parabolas](#)

## Questions or Concerns?

Each session in our program is designed to be one hour long, with 50 minutes dedicated to focused instruction. The final 10 minutes are set aside for student reflection and session wrap-up. During this time, the tutor will guide students in reflecting on what they learned, sharing areas of challenge or success, and reinforcing key takeaways from the lesson. This helps solidify understanding while fostering self-awareness in learning.

**Please Note:** If at any point you feel a question or concern is not adequately addressed by the assigned tutor, or if you wish to unenroll your student(s), please get in touch with [familytutoring@cignition.com](mailto:familytutoring@cignition.com). Tutors cannot unenroll students and are encouraged to designate all payment and logistical questions to the Family Plan Program Manager, Madelyn Brown.