

At Home Group Tutoring

TOPICS AND SAMPLE LESSONS

This syllabus and outline will build upon the foundational skills taught in the previous sessions, focusing on more advanced fraction operations, decimals, and an introduction to data analysis to prepare students for the next stage in their math journey.

Students will continue their work in Algebra by exploring and applying exponential growth and decay situations and arithmetic and geometric sequences. Students will improve their problem-solving skills graphically and algebraically and apply their transformation knowledge to non-quadratic relationships. Additionally, students will strengthen their fluency in solving equations and prepare them for continued work in Algebra I and Algebra 2.

- One-Step Equations: Balancing the Hanger
- Finding the Multiplier

Week	Session	Topic
1	1	Group Building & Exponential Modeling
1	2	Group Building & Sequences
2	3	Arithmetic & Geometric Sequences
2	4	Arithmetic & Geometric Sequences
3	5	Writing Rules: Linear, Quadratic, and Exponential
3	6	Exponential Applications
4	7	Systems of Equations
4	8	Systems of Equations
5	9	Factoring and Solving Quadratics

5	10	Product and Sum with Quadratics
6	11	Transformations
6	12	Transformations Applications
7	13	One-Step Equations
7	14	Solving Multi-step Equations
8	15	Solving Multi-step Equations
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.

- [One-Step Equations: Balancing the Hanger](#)
- [Finding the Multiplier](#)

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. Tutors cannot unenroll students and are encouraged to designate all payment and logistical questions to the Family Plan Program Manager, Madelyn Brown.