

Problem-based Learning Game for Introductory Algebra

A free service through October 1, 2022

ProblemScape is a 3D adventure game for introductory algebra and is a problem-based learning environment that uses its narrative to spotlight real-world applications of math.

Problem Scape is an integrated solution that brings together:

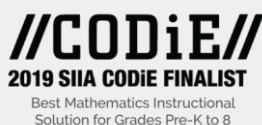
- Adventure in a 3D World
- Applications of Algebra
- Multimodal instructional content
- Adaptive practice and review
- Fun and engaging game elements

While addressing math anxiety and improving self-efficacy.



The Introductory Algebra Course Will Be Useful For:

- Students entering sixth grade, to prepare them for rigorous coursework
- Students in sixth grade who can use this as a supplement to give them extra support, deeper understanding, + a robust learning experience
- Students in higher grades who need extra help or intervention to catch up and review basic algebra concepts
- Students in independent and home schools looking for a challenging and fun math course
- Students going back to school needing a refresher on algebra





Course Pacing Guide Preview

Chapter 1: Mystery of the Missing Mayor

Day 1: Learn to Evaluate Exponents

- Explore Arithma and learn about exponents through an in-game multimodal instruction tool
- Help an Arithman with an exponent puzzle

Day 2: Learn the Order of Operations

- Use math to play a game of paintball
- Interact with in-game characters and share how you feel about math
- Help the Arithman open a number lock using the order of operations

Day 3: Teach the Order of Operations

- Cement your understanding by teaching in-game characters about order of operations

Day 4: Challenge Games and Review

- Complete challenge and review activities to unlock new items and rewards

Day 5: Practice Metacognition

- Finish a cumulative and adaptive review of the chapter content to unlock the next chapter

