# **Literacy Across the Disciplines: Mathematics**

## **Course Companion Literacy Academy on Demand**

The Course Companion is designed to allow participants to capture notes, reflections and action steps as they work through the course. Additionally, the Course Companion contains a list of all extra resources listed in the course. Each section of the Course Companion is linked to a corresponding section of the course.

### **CONSIDER THIS SCENARIO**

Mrs. Grant is a Geometry teacher at Parker High School. She loves finding ways to make geometry relevant to students and often finds ways to incorporate real-world situations and events into her instruction. In her latest unit, she used a popular game that many students played on a phone app to introduce key concepts in geometry. As part of this unit, she wanted her students to read through an article about how game designers incorporate concepts from geometry into their development. However, she noticed that several of her students struggled to read the passage, often stopping at words they did not know. This led several of the students to feel confused about the article's main points and relation to mathematics. Mrs. Grant knows that she wants to help her students read more fluently and to comprehend what they read. However, she is unsure how to help them.

Can you relate to the above scenario? In what ways are your challenges in literacy instruction similar or different?

**Supporting Mathematics Literacy – Video Presentation with Dr. Joshua Lawrence**

**Notes:**

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**Reflection Question:** Consider some components of the Simple View of Reading identified by Dr. Lawrence that impact reading in Mathematics (Background, reasoning, academic language & vocab, searching & sources, literacy knowledge, perspective taking). Which of these elements of effective reading do you commonly draw on in your classroom? What elements might you begin to employ to more effectively teach your students?

### **COURSE REFLECTION**

Which of the tools and/or strategies identified by Dr. Lawrence could you incorporate into your current instruction? What steps do you need to take?

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### **RESOURCES LISTED IN THE COURSE**

[Disciplinary Literacy in Mathematics](https://ohiodas.sharepoint.com/sites/EDULiteracyAchievementandReadingSuccess/Shared%20Documents/Forms/AllItems.aspx?id=%2Fsites%2FEDULiteracyAchievementandReadingSuccess%2FShared%20Documents%2FLiteracy%20Implementation%2FProfessional%20Learning%2FLiteracy%20Academy%20on%20Demand%2FCourses%2F6%2D12%2FLATD%2DMath%2FDisciplinary%5FLiteracy%5FMath%2DLAoD%2Epdf&viewid=2cce2999%2D4c49%2D47ba%2D9f71%2D5ab26d47a788&parent=%2Fsites%2FEDULiteracyAchievementandReadingSuccess%2FShared%20Documents%2FLiteracy%20Implementation%2FProfessional%20Learning%2FLiteracy%20Academy%20on%20Demand%2FCourses%2F6%2D12%2FLATD%2DMath): This document from Dr. Josh Lawrence provides an overview of content from this course in addition to several tools that can be used in mathematics classrooms to support students’ literacy.

[Big Ideas in Literacy – Math:](https://www.learner.org/series/reading-writing-in-the-disciplines/big-ideas-in-literacy-mathematics/) This document from the Annenberg Foundation, provides an overview and examples of disciplinary literacy in Mathematics