

THE MATH BEHIND SCENIC DESIGN



Recommended Grades:

Grades 6-8 | Grades 9-12

Discover how scenic designers use geometry to create a set for the stage! Students will learn about the elements of design, how they relate to math, and how scenic designers bring their art to reality. Using a text from ELA class, students will use their knowledge to create a set design for a scene in the novel. Students will experience scale drawing and figure out what materials they need in order for a shop to build their design.

Topics Covered:

Grades 6-8: Area, Surface Area, Scale, Proportions, Congruence, Engineering Design, Tools and Manufacturing

Grades 9-12: Engineering Design, Transformations, Congruence, 2D and 3D Relationships, Geometry in Design

*Please note that this workshop runs about 2 hours.