

Gaining a Deeper Understanding of Geometry through Literature

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Vetted Project: The students created stories to help younger students understand Geometry concepts. Sustainability: The books will be printed and donated to the elementary schools for student and teacher use. Driving Question: How can you teach elementary students geometric concepts through literature?

I. Authenticity

Producing / Revising
Execute Multiple Drafts
Model or Prototype
Product
Storyboard

Presenting
Utilize Visuals

II. Media Produced

Digital Content
Audio Content
Video Content

Artistic Composition
Fictional Narrative

Physical Drawings & Fine Arts
Illustration

III. Challenging Problems

Topics: Physical World
Numbers & Shapes

Topics: Humans in the World
Student Related Issues

Topics: Of the Mind
Intelligence & Learning

IV. Achieved Literacy Skills

Information / Technology
Maintain Online Records

Media
Utilize Media Creation Tools

Project / Work
Address Setbacks / Criticism
Adjust to Schedules / Contexts
Balance Various Roles / Responsibilities
Learn / Develop Expertise
Manage Time / Workload

Leadership
Present a Professional Appearance

I. Parameters & Feasibility

Project Timeframe
3-4 Weeks

Assessment Timeframe
More than a Class Period

of Project Members
Small Group
Large Group

Grade Level
High School (Grades 9-12)

Authentic Audience / Evaluators
Peers
Parents

Teachers & Administrators
Community Members
Industry Representatives

Special Test Accommodations
Student Response

II. Intended Learning Outcomes

Creativity
Design / Create
Elaborate / Expand
Envision / Invent
Improve / Refine

Communication
Engage Creatively

Instruct

Collaboration

Assume Shared Responsibility

Develop Trust

Encourage Others

Exercise Flexibility

Ignore Distractions

Incorporate Feedback

Manage People / Team

Respond to Failure

Value Contributions Made by Others

Work with Diverse Teams

Critical Thinking

Assemble Parts of a Whole

Clarify Meaning

Critique Reasoning of Others

Negotiate

Overcome Obstacles

Persuade

Rational, Objective Decision-making

Reflect Critically on Learning

Solve Problems Innovatively

Instilled Citizenship Values

Express Empathy / Compassion

Habits of Mind & Heart

Personal Responsibility

Social Responsibility

Strong Personal / Work Ethic

III. Success Skills & Depth of Knowledge

Cognitive Demand

Identifying / Remembering

Comprehending / Understanding

Applying

Analyzing

Evaluating

Creating

Social & Emotional Skills

Self-awareness

Self-management

Group-awareness

Group-management

Learning Styles / Intelligences

Interpersonal / Social

Intrapersonal / Introspective

Logical / Mathematical

Verbal / Linguistic

Visual / Spatial

Assessment Structures / Resources

Checklists

Interviews / Conferences

IV. CTEs & Disciplines

Career & Technical

Authorship & Composition

Education

Mathematics

Geometry



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