



Trigonometry: RIASEC Classroom Connections

These examples of career connections across RIASEC themes help educators get started so they can further customize RIASEC-aligned examples for their content. RIASEC themes help students name and claim their interests and explore future options. Real-world examples as part of ongoing instruction improve engagement, relevance, and purpose.

Realistic (R)

- Civil Engineering: Discuss the application of trigonometry in designing roads, bridges, and buildings, emphasizing its importance in construction and infrastructure projects.
- Surveying Technician: Explore how trigonometry is used in surveying to determine precise land measurements and boundaries for development projects.

Investigative (I)

- Meteorologist: Introduce the role of trigonometry in predicting weather patterns and atmospheric phenomena, focusing on analysis and problem-solving.
- Astronomer: Highlight how astronomers use trigonometry to calculate distances to stars and galaxies, exploring the universe's vastness.

Artistic (A)

- Video Game Developer: Discuss the use of trigonometry in creating realistic animations and physics engines for video games, blending technical skills with creativity.
- Architectural Designer: Explore the aesthetic applications of trigonometry in architectural design, ensuring structural beauty and integrity.

Social (S)

- Education Technology Developer: Highlight the development of educational software that uses trigonometry, aiming to enhance learning experiences in mathematics.
- Academic Counselor: Discuss the role of counselors in guiding students interested in fields that require a strong foundation in trigonometry, focusing on educational paths and career advising.

Enterprising (E)

- Technical Sales Engineer: Introduce the importance of understanding trigonometric applications in selling technical or engineering products and solutions.
- Project Manager in Construction: Explore the management of construction projects, requiring an understanding of trigonometric principles to ensure project accuracy and success.

Conventional (C)

- Financial Analyst: Discuss the application of trigonometry in certain financial modeling techniques, analyzing market trends and investment opportunities.
- Quality Control Analyst: Highlight the role of trigonometry in ensuring products meet specific technical specifications and standards.

Know yourself. Develop your talents. Weigh your options. Dream big!