

RIGHT TRIANGLE PROJECT MENU

The purpose of this project is to further your knowledge of right triangles, Pythagorean Theorem, and Trigonometric Ratios. You will need to turn in three separate items for your project. You will use the Tic-Tac-Toe Menu below to choose which three items you want to complete and turn in. The three items you choose must be either in the same row, same column, or on a diagonal.

Write a “breaking news” report about the trigonometric ratios.	Write a 1 page paper about the history and origin of the Pythagorean Theorem.	Write a song or poem about the concepts of this unit (Pythagorean Theorem, Special Right Triangles, and Trigonometric Ratios)
Find 10 examples of right triangles in the real world and briefly discuss their characteristics.	Make a poster on one of the following topics: • Pythagorean Theorem • Special Right Triangles • Trigonometric Ratios	Write a children’s story that contains two of three following concepts of this unit. (Pythagorean Theorem, Special Right Triangles, or Trigonometric Ratios)
Make a drawing using at least 6 special right triangles.	Make up a game that utilizes the concepts of this unit (Pythagorean Theorem, Special Right Triangles, and Trigonometric Ratios)	Solve and present the solutions to 3 problems provided by the teacher.

TIC - TAC - TOE MENU

PICK 3 ITEMS IN THE SAME COLUMN, ROW, OR ON A DIAGONAL

Rubric for this Assignment:

Choice	1 Low level of Achievement	2 Moderate Level of Achievement	3 High Level of Achievement	4 Exemplary Achievement
“Breaking News”	News report does not demonstrate knowledge of trigonometric ratios.	News report demonstrates knowledge of trigonometric ratios.	News report demonstrates a solid knowledge of trigonometric ratios.	News report demonstrates a deep knowledge of trigonometric ratios. Readers come away with a deep understanding of the concept.
1 Page Paper	Paper presents little or no evidence of research and knowledge of the history and origin of the Pythagorean Theorem.	Paper presents some evidence of research and knowledge of the history and origin of the Pythagorean Theorem.	Paper presents evidence of research and a thorough knowledge of the history and origin of the Pythagorean Theorem.	Paper presents convincing evidence of extensive research and a thorough knowledge of the history and origin of the Pythagorean Theorem. Readers gain a deeper understanding of the concept.
Drawing	Drawing demonstrates little or no understanding of special right triangles.	Drawing effectively demonstrates a basic understanding of special right triangles.	Drawing effectively demonstrates a solid understanding of special right triangles.	Drawing effectively demonstrates a complete understanding of special right triangles. Viewers also gain a deeper understanding of the topic.
Examples	The examples selected demonstrate little or no understanding of right triangles and how they occur in the real world.	The examples selected demonstrate a basic understanding of right triangles and how they occur in the real world.	The examples selected create a complete picture of right triangles and how they occur in the real world.	The examples selected create a perfect picture of right triangles and how they occur in the real world. Viewers of the examples come away with a better understanding of right triangles.
Poster	The poster demonstrates little or no understanding of the topic selected.	The poster demonstrates a basic understanding of the topic selected.	The poster effectively demonstrates a solid understanding of the topic selected.	The poster effectively demonstrates a solid understanding of the topic selected. Viewers come away with a deeper understanding of the selected topic.
Children’s	The Children’s	The Children’s	The Children’s	The Children’s Story

Story	Story contains none or one of the three concepts, and does little to explain it in an understandable way.	Story contains two of the three concepts, but does little to explain them in an understandable way.	Story contains two of the three concepts, and explains them in an understandable way.	contains two of the three concepts, and explains them in such a way as to become an example for later classes.
Game	The Game does not effectively utilize the concepts of this unit.	The Game effectively utilizes the concepts of this unit.	The Game effectively utilizes the concepts of this unit, and it is easy and fun to play.	The Game effectively utilizes the concepts of this unit, it is easy and fun to play, and it can be used to teach the unit in the future.
Song or Poem	The Song or Poem shows little or no understanding of the concepts in this unit.	The Song or Poem shows some understanding of the concepts in this unit.	The Song or Poem shows a solid understanding of the concepts in this unit. It is well-written.	The Song or Poem shows a complete understanding of the concepts in this unit, it is well-written, and it is polished and ready to be performed in public.
Solve and Present	The solution and presentation of the 3 problems demonstrate little or no understanding of the concepts presented in this unit.	The solution and presentation of the 3 problems demonstrate a basic understanding of the concepts presented in this unit.	The solution and presentation of the 3 problems demonstrate a solid understanding of the concepts presented in this unit.	The solution and presentation of the 3 problems demonstrate a complete understanding of the concepts presented in this unit, and could be used as examples in class.