



2025 - 2026 ACADEMIC YEAR

MATHEMATICS 10TH GRADE PROJECT 2

PROJECT TITLE: **SPIDER-MAN TRIGONOMETRY**

Grade	Content	Objectives of the Project	Duration	Grading Method
10 th GRADE	Practice trigonometric angles and functions by drawing a city with buildings and lines as paths	Observation, Research, Drawing, Creative Thinking Skills	Throughout the School Year	Rubric

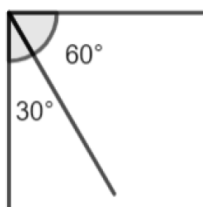
OBJECTIVES:

1. Make detailed study about trigonometric ratios, their names and properties to be used in you project
2. Using the data below and the relevant 3D picture of the city; draw 2D city models and link them with Spider-man webs – show trigonometric values on your shapes. You are supposed to draw 2 different models at least. You may label buildings by their shapes or colors or you may write their names by making research about Spider-man city famous buildings.

Data to be used:

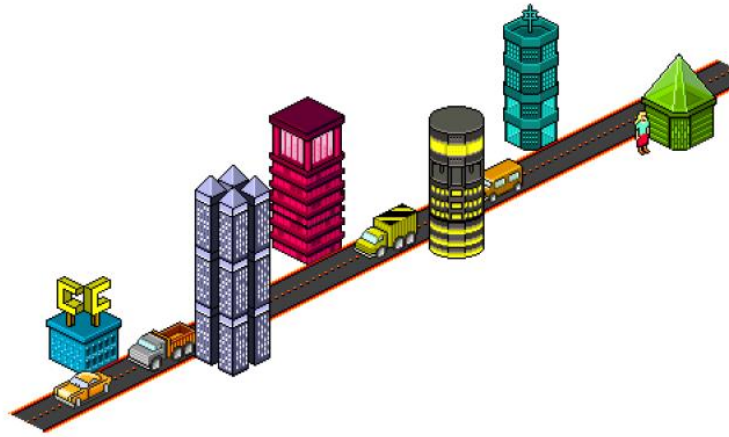
Some things to note about Spider-man, who is a very consistent fellow:

He always releases his web at an angle of depression of 60° (use the image to the right to help you visualize what that means).



He always shoots his web at the top of the building, because it looks cooler or something like that.

He likes all his measurements to two decimal places.



3. Make a comic strip (at least 8 panels) about this project scenario and with your own story-writing skills.
4. Present your work to the class.

RESEARCH / PRESTUDY-IMPLEMENTATION

The project should include the following parts:

1. Cover Page
2. Table of Contents - Page numbers are to be indicated
3. Epilogue
 - The reason why you have chosen the assignment
 - The experiences lived during the process of preparation
 - Contribution of the assignment to your personal development and perspective
4. Bibliography (All the references should be indicated.)

RECOMMENDATIONS

1. List the details of the subject you have chosen.
2. Design your work on paper until the 1st check.
3. Show your work on the screen or using a flash disc /USB in the 2nd check.
4. List the resources you used.
5. Authentic and creative work will give you more points.

1st CHECK (Planning)

Draw the outline of your project until the 1st check. Tell the teacher about your preparations and what you are planning to do.



2nd CHECK (Draft)

Show your draft work to the teacher. Take into consideration your teacher's advice about how to improve your work.

ASSESSMENT

- Mathematical Concept and Reasoning (16p)
- Demonstrated Knowledge (14p)
- Mathematical Terminology and Notation (16p)
- Organization (14)
- Product / presentation (40)