

History and Applications of Pi

WebQuest Description: Today you will complete a WebQuest in honor of Pi Day (3/14) that includes information regarding both the history and applications of the mathematical constant pi.

Grade Level: 9-12

Curriculum: Math

Keywords: Pi, Circumference, Diameter, Circles

Published On:

Last Modified: 2018-04-01 02:14:08

WebQuest URL: <http://zunal.com/webquest.php?w=377544>

Introduction

What is the history of pi, a mathematical constant? How can we apply pi in and outside of mathematics? Today you will trace the history of pi and how this mathematical constant is used.

Tasks

The learner will watch a video, read articles, interact with a slideshow, and view graphs and images in order to learn about the history and applications of the mathematical constant pi.

Process

Part I: Watch "The Infinitude of Pi" and answer the corresponding questions on your handout during the video.Part II: Click through the slides about interesting facts of pi on livescience.com and answer the corresponding questions on your handout. Part III: Read about applications of pi regarding circles on mathisfun.com, analyze the images provided, and answer the corresponding questions on your handout.Part IV: Read the article "Brief History of Pi" about civilizations' contributions to discovering pi and answer the corresponding questions on your handout.Part V: View the unit circle in the measure of radians on mathisfun.com, read information provided, and answer the corresponding questions on your handout. Part VI: View the graphs of trigonometric functions on calculatorsoup.com and answer the corresponding questions on your handout. Part VII: Read the article about other pi applications on curtiscenter.math.ucla.edu and answer the corresponding questions on your handout.

Evaluation

Once you have completed this WebQuest (answered all questions throughout all seven sections), you will turn in the handout for a grade.

Category and Score					Score
				Total Score	

Conclusion

What a fun way to celebrate Pi Day - learning more about this mathematical constant!

Teacher Page

This WebQuest is a fun activity for students to learn more about the important mathematical constant pi.

Standards

Credits

Other