

Pi in the 21st Century: An Irrational Exploration

Description of Presentation: Explore a hands-on approach to introducing your students to the concept of pi as an irrational number, part of circle equations, and a ratio. Experience a unique and wide variety of activities to bring pi alive in your classroom, including the celebration of Pi Day (March 14). Handouts, materials, and ready-to-use activities provided.

Objectives of Presentation: Participants will leave with a plethora of activities to aid in student understanding of Pi and its involvement in mathematical concepts. Also, Participants will be able to involve their students in real-life explorations of the most common irrational number in a fun and memorable way.

Grade Band/Audience: 3 to 5, 6 to 8

Topic: Geometry, Measurement Systems and Processes, Constructions, Transformations

Focus on Math: Participants will explore solving real-life mathematical problems involving area, circumference, formulas of a circle, and the relationship between the circumference and diameter of a circle. Activities encourage student involvement and investigation into the meaning and uses of Pi.

All of the activities we will be presenting are to give teachers a toolbox of choices for celebrating Pi Day in your classroom, Math department or school. Many of these activities are not original but have been found or adapted from others found on the Internet.

Both of us have been holding a Pi day celebration at our schools for the last 6-10 years and depending on time allotted do one day to a whole week of Pi Day activities.

Due to the fact that we could not load our whole packet of materials we will be emailing it out to teachers who request it.

To get all the activities and even more ideas please email us at Cecil.phibbs@palmbeachschools.org and request your own packet.

Please specify Pi packet Richmond in your message

The packet will include:

- **all the activities presented at NCTM Richmond including the Bubble exploration; Pi on the walls; Pi keychain & Mean , Median, Mode; Pi food; Popcorn Pi**
- **all worksheets used during the presentation**
- **additional copies of station type problems for middle to high school students**
- **additional resources that we have found on the internet**
- **the Pi day logo seen on the cover page in button size format**
- **templates for your Pi medallions for Pi necklaces**
- **Template for the Giant Pi for your students to decorate**
- **2 different Pi Day activity resource pages**
- **an extensive list of Pi day related websites**

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