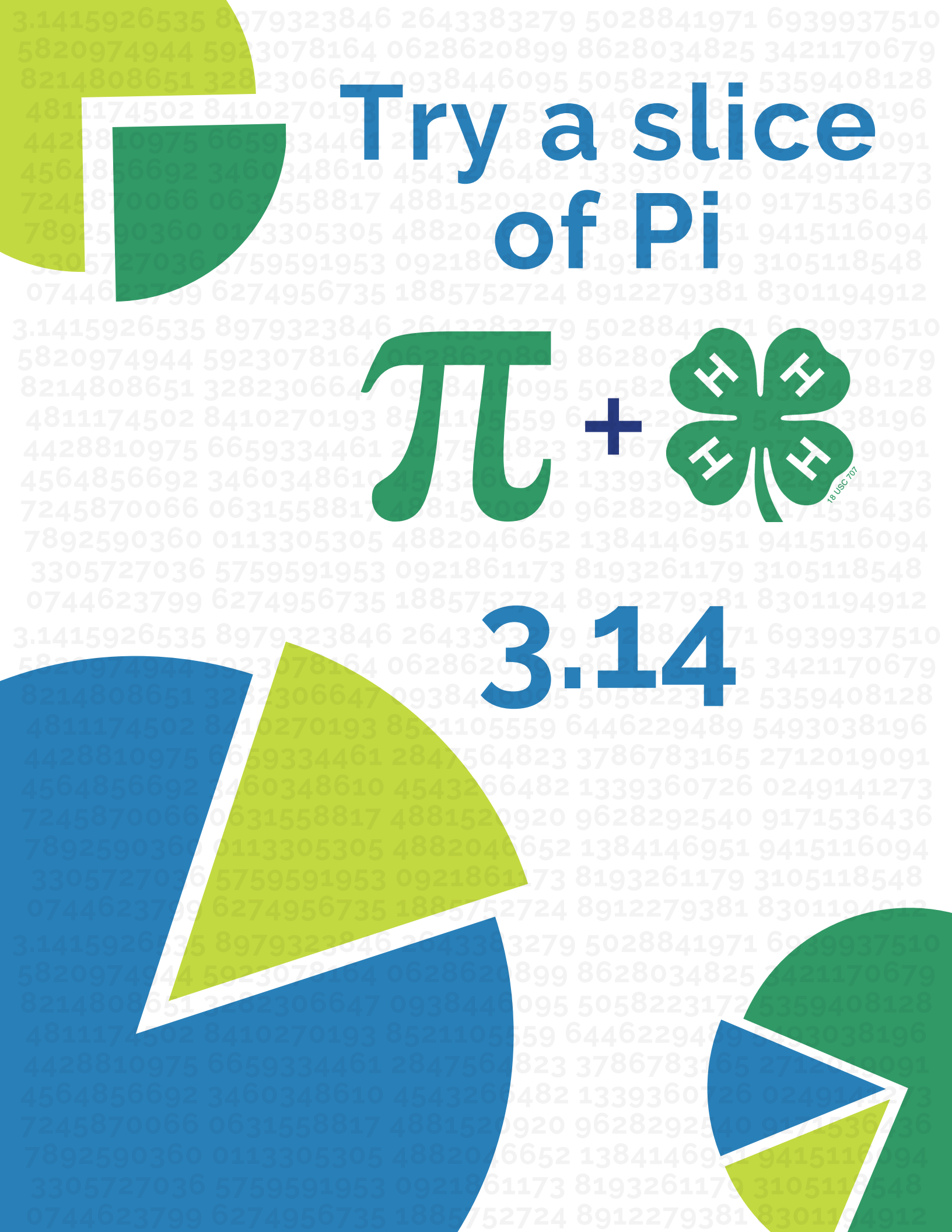


Try a slice of Pi

$$\pi + \text{Clover} = 3.14$$

3.14



Try some Pi! The Utah County 4-H STEM Ambassadors have curated several fun Pi activities for you to try. What is Pi you ask?

Well...Pi (often represented by the lower-case Greek letter π), is one of the most well-known mathematical constants, is the ratio of a circle's circumference to its diameter. For any circle, the distance around the edge is a little more than three times the distance across. Learn more about Pi at <https://www.piday.org/learn-about-pi/>

Here are the first 500 decimal places to get you started:

3.1415926535 8979323846 2643383279 5028841971 6939937510 5820974944 5923078164
0628620899 8628034825 3421170679 8214808651 3282306647 0938446095 5058223172 5359408128
4811174502 8410270193 8521105559 6446229489 5493038196 4428810975 6659334461 2847564823
3786783165 2712019091 4564856692 3460348610 4543266482 1339360726 0249141273 7245870066
0631558817 4881520920 9628292540 9171536436 7892590360 0113305305 4882046652 1384146951
9415116094 3305727036 5759591953 0921861173 8193261179 3105118548 0744623799 6274956735
1885752724 8912279381 8301194912

Activities

Pi Paper Chain or Pi Bracelets

To do this activity you will need different colored paper strips (or beads if making a bracelet) that are paired with numbers (e.g., blue for 0, red for 1). The strips are then linked in the order of π (3.1415...). The chain can be as long or as short as time and interest allow.

For Paper Chains You Will Need:

- Construction paper of ten different colors cut into strips
- Stapler or tape for paper chains

For Bracelets You Will Need:

- ten different colors of plastic beads for bracelets
- Pipe cleaners, yarn or other product on which to string the beads

What you do:

- Decide which color will represent which number.
- Create your paper chain or bracelet by taking a strip of paper (or bead) in the color you have chosen to represent the number 3 and making it into a loop. Close the loop with a stapler or piece of tape. For a bracelet string the bead onto your string, pipe cleaner, or yarn. Be sure to knot or kink the end to prevent the beads from coming off.
- Repeat with the strips that match the numbers in π so that you have a visual representation of π .
- How long can you make it?

Pi Day Greeting Cards

Celebrate Pi Day with Greeting Cards! Create cards to send/give to friends, family, or as a service project celebrating Pi Day.

You may use any of the following ideas for things to write on the cards, or come up with some of your own:

- Happy PIE Day !
- You are sweeter than 3.14159265358979323846264338327950288419716939937510
- When the moon hits your eye like a big pizza π that's 3.1415...
- Circles... they're as easy as 3.1415926535897932384626>
- Not super creative? That's ok a quick Google search of "Pi Day greeting cards" will give you LOTS of great ideas for sayings and images.

A Homemade Spirograph

All it takes is a few minutes with a Spirograph to remind you how fun drawing a plain circle can be!

What you need:

- A round cake pan (or other flat, round pan)
- Cardboard
- Scissors
- A rubber band
- A pencil
- Paper
- Tape

What you do:

1. Measure the diameter of the cake pan.
2. Draw a circle with a diameter half that of the pan. You can do this easily by making one side of the square you use to draw the circle (as described in the activity above) the length you want for the diameter.
3. Trace it on the piece of cardboard.
4. Put the rubber band around the edge of the piece of cardboard.
5. Cut out a piece of paper to fit the bottom of the pan and use tape to hold the paper in place so it doesn't move around.
6. Poke a hole in the middle of the cardboard. If you don't want to make circles, you can get weird shapes by making the hole away from the center of the circle.
7. Put the pencil in the hole and move the circle around the cake pan. Hold the edge of the pan with one hand so the pan doesn't move while you're moving the circle. The circle will guide the pencil to make cool shapes on the paper in the bottom of the pan. Try it with different color fine-tip markers. The circles you're drawing are called hypotrochoids. Cool name, huh?

Scavenger Hunt

1. Find 3 mathematicians who have researched Pi.
2. Find 1 world city that references something circular.
3. Find 4 capital letters that are symmetrical.
4. Find 1 national monument that has a conical formation.
5. Find 5 mathematical formulas that include pi (π).
6. Find 9 logos that include something circular in their image.
7. Find 2 world flags that include a circle or circular object on the flag.
8. Find 6 candies that are circles.
9. Find 5 people with the March 14th as their birthday.
10. Find 3 song titles that include a reference to a circle.

Finding Pi Activity

Can you find Pi in everyday objects? Using of string or yarn place a length around a circular object. Cut the string or yarn where the ends touch. Now straighten out the length and measure it with a ruler. What is the yarns length (circumference)? What is the length to the mid-point (radius)?

How many objects can you find and measure in your home?

Write down the names of the objects and their circumference and radius.

Which is the largest or has the greatest circumference? Which is the smallest?

Try these other fan favorites:

- Get physical with pie and pi! Set up a pie throwing target and toss your pies!
- Race to create pi with playing cards, first person to create the first 6 digits wins!
- Bake a PIE, your favorite flavor and share it with friends and family.
- Make π shaped sugar cookies in honor of Pi day.

The Internet is filled with all kinds of Pi Day ideas and activities. We found this site to contain several incredible activities you can do at home.

- [National Math Council Activities](#)
- [31 Perfect Pi Day Activities](#)

Resources & References

- <https://www.mensaforkids.org/teach/activity-plans/pi-day-fun/>