

Sir Cumference and the Dragon of Pi A Math Adventure 3rd Grade Great Activity
for March 14th- Pi Day

Math SOLs:

3.6- Compare 2 fractions with like and unlike denominators as represented by actual or pictured objects

3.5- represent fractional parts of a region or set using numbers and actual or pictured objects

3.14- estimate, measure, and draw length in metric and customary units

Language Arts SOLs

3.3- use appropriate homophones

3.10-write using a variety of forms d) informative/expository

3.11- use complete and varied sentences

3.1- participate in class lessons and discussions

Materials:

Sir Cumference and the Dragon of Pi

Colored circles, one for each child- each color represents a different kind of pie
(brown=chocolate)

Slates/markers

Copy paper

Yarn/pie tin

Procedure:

1. Teacher introduces the story by reading the title and discussing that it is a math adventure. This is the other kind of pi
2. Give the children slates and markers. As the teacher reads aloud, students record any math vocabulary words they hear.
3. Read to page 17 and stop. Introduce the concept of diameter using yarn and the pie tin. Call up students to measure and cut the diameter with the yarn. Wrap the yarn around the edge of the pie tin to introduce how to measure circumference.
4. Continue along with the story. Emphasize how he measured to find the circumference.
5. After the story has been finished, have the students share either with a partner or whole group the math vocabulary they heard in the story.
6. Pass out colored circles to each child. Brainstorm with students what flavor pie each color will represent. (ie. Yellow=banana cream)
7. Teacher guides students to fold their circles in half and cut it. Discuss what fraction each part represents.
8. Leave 1 piece of their pie at their desk, and they trade with another student that has a different kind of pie.
9. Have them fold each piece and cut in half- now they have 4 pieces
10. Now use the 4 pieces to review fourths- equivalent fractions, parts of a whole, etc.
11. Leave one piece at their desk and trade 1 piece with another student.
12. Repeat the questioning as in step 10.
13. Continue 1 more time to result in eighths and continue questioning.
14. Glue all of their pieces on the paper to form one whole pie.
15. Students write sentences using fraction vocabulary to describe their pie.
(My pie is $\frac{1}{4}$ blueberry) This will be used as an evaluation.

Activity Centers/Extensions

Put homophones on circles for children to match up.

Write recipes of unique pies- puppy pie, Hannah Montana Pie, etc.

Use analogies from the story- Blue :blew:: Pi: _____

