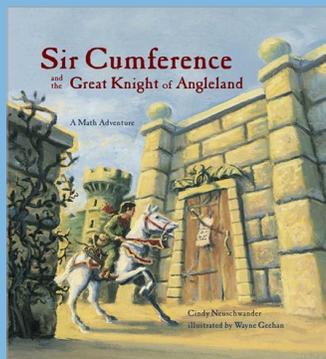


An AMAZ-ing Adventure!

Lesson Plan: Grade 4

INFOhio
OHIO'S PreK-12 DIGITAL LIBRARY



Materials

- From Storia: *Sir Cumference and the Great Knight of Angleland* by Cindy Neuschwander. Lexile: AD450L
- Paper protractor
- Graph Paper
- Pen/pencil/writing tools
- Legos, blocks, or other manipulatives
- Directions for creating the maze

Extensions

- Go on an outdoor math adventure. Have students find angles in nature and record them on a journal page.
- Play the Angle Game (a version of Simon Says). Call out an angle and see how many students can make the angle with their arms.

ELA

Ohio Learning Standards—ELA. Reading Standards for Literature K-5. Key Ideas and Details.

RL.4.1. Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.

Mathematics

Ohio Learning Standards—Mathematics. Geometry.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

4.G.1 Draw points, lines, line segments, rays, angles (right, acute, obtuse) and perpendicular and parallel lines. Identify those in two-dimensional figures.

Directions

1. Go to infohio.org and click All Resources. Choose Storia from the list. Log in to the resource. Assign students to read the book *Sir Cumference and the Great Knight of Angleland* by Cindy Neuschwander. Ask students to use the highlight tools to highlight the word angle(s) each time it appears in the text and the note tool to take notes or record questions. Have them complete the eBook test at the end.
2. Share the story with the students in class with a close reading. Have students make observations or ask questions on their own. Point out the math terms and concepts in the story. Ask students to draw an example of the different geometry terms in the text and write their own explanation of the work (right angle, acute angle, obtuse angle, straight angle, parallel lines, perpendicular lines).
3. Discuss the medallion and how it represents a protractor. Demonstrate how to use a protractor to measure degrees in a circle. Give each student a paper protractor and have them practice measuring angles in the classroom.
4. Create an AMAZ-ing maze like the one Radius had to conquer on his quest to rescue King Lell. Each student must create a maze incorporating all the different types of angles and geometry terms used in the text.
5. Using graph paper, begin creating the maze by using parallel lines to create the path to follow. Assign each student a list of angles to incorporate into the maze. Make a path from start to finish that includes the exact number of angles.
6. Students must include 1 or 2 wrong paths to make the maze challenging. There can be only one correct path through the maze.
7. Alternative: Use Legos, blocks, or another type of manipulative to create the maze.
8.

Maze 1	Maze 2	Maze 3	Maze 4
5 right angles	8 right angles	4 right angles	6 right angles
2 acute angles	3 acute angles	6 acute angles	2 acute angles

Assessment

Storia includes reports on the length of time that students spend reading, highlighting, and note taking and an eBook quiz at the end. It also includes a messaging feature you can use to provide students with expectations and feedback. For a more extensive assignment such as creating a maze, use a rubric to create an accurate snapshot of student proficiency. Use this link [Assessment and Rubrics](#) to develop a rubric for your students.