

Project Activity Guide

Geometry Crossword Puzzle

Student Information for Completing this Project:

We will begin by creating a new document in Microsoft Excel. We are going to enter some words for geometrical shapes into the cells of our spreadsheet – one letter in each cell. We'll learn how to format the text in the cells and how to add a border and gridlines. We'll learn how to add a comment that will act as a pop-up clue when someone hovers their cursor over a square that will be used for the first letter of a word. We'll also learn how to add "conditional" formatting to the first-letter cells to indicate whether the letter entered is right or wrong. We'll save the puzzle as a template and learn how to print it out, in case someone wants to complete the puzzle on paper, rather than on the computer.

The following information can be used to recreate the example project, exactly as it is demonstrated in the tutorial movies for this Lesson Accelerator.

Crossword	Crossword Clues:
ARCS	D3 Across: A segment along the circumference of a circle
SQUARES	G3 Down: Shape with 4 sides of equal length; all interior angles are 90 degrees
RHOMBUS	K4 Down: Shape with 4 sides of equal length; opposite sides are parallel
HEXAGON	I5 Down: Shape with 6 sides
TRAPEZOID	E6 Across: Shape with 4 sides; exactly one pair of opposite sides is parallel
TRIANGLE	E6 Down: Shape with 3 sides of equal or unequal length
LINE	D8 Across: Geometric object defined by two points
ANGLE	C11 Across: The space between two intersecting lines or planes; measure in degrees or radians
ELLIPSE	E13 Across: Shape that looks like a flattened circle; galaxies often have this shape

Click the following links to learn about and complete the *Geometry Crossword Puzzle* activity.

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A. Getting Started

1. [Starting your crossword](#) 30647 1:38

2. [Entering more words into the puzzle](#) 30648 0:45

3. [Formatting the cells](#) 30649 1:28

4. [Filling in the background](#) 30650 1:02

5. [Formatting height and width](#) 30651 0:48

B. Spreadsheet Interactivity

1. [Adding the clues](#) 30652 2:58

2. [Applying conditional formatting](#) 30653 2:30

3. [Testing & editing conditional formatting](#) 30654 1:30

4. [Adding clues to print](#) 30655 1:58

C. The Spreadsheet Template

1. [Setting up the blank template](#) 30656 1:33

2. [Printing the crossword](#) 30657 0:43

3. [Working the crossword](#) 30658 1:32