

### Annotated Lesson Plan Using Technology

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<b>Link to Lesson Plan:</b>	<p>[Insert link to your lesson on your e-portfolio]</p> <p><a href="https://www.education.com/open-interactive/worksheet/pemdas/">https://www.education.com/open-interactive/worksheet/pemdas/</a></p> <p>Lillian - <a href="https://sites.google.com/d/15e00yT91A9rq9ZhAar7fEOBC_GKfxtg9/p/1Xr16PWfH-CC8aj9M_TWCpqbqSxzdNQSv/edit">https://sites.google.com/d/15e00yT91A9rq9ZhAar7fEOBC_GKfxtg9/p/1Xr16PWfH-CC8aj9M_TWCpqbqSxzdNQSv/edit</a></p> <p>Molly - <a href="https://sites.google.com/oakland.edu/mollygittler/home">https://sites.google.com/oakland.edu/mollygittler/home</a></p> <p>Katie -</p>

## Template

Date: 3/4/2025

Subject: Math

Grade Level: 5th Grade

Materials: <https://mm.tt/app/map/3623055008?t=FHHSeYM0L4> - PEMDAS digital artifact

<https://www.education.com/open-interactive/worksheet/pemdas/> - Interactive worksheet  
(students will need paper and pencil to solve problems and show their work.)

<https://www.youtube.com/watch?v=XLAmYo2d4ko> - Video to explain PEMDAS

Outline -

Students will watch the youtube video as a class to get a better understanding of what PEMDAS is. We will then have a whole class discussion to talk about any confusion. Next students will pull up their digital artifact as a tool while they are doing their assignment. Students will then independently work on their worksheet.

State Standards: 5.OA.A.1. Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.

Enduring Understandings: Students will practice multiple different scenarios using the order of operations.

Essential Questions: What order should we solve equations in?

Objectives: Use the order of operations to solve equations correctly.

Engagement:	Link to an introduction of PEMDAS. <a href="https://www.youtube.com/watch?v=XLAmyo2d4ko">https://www.youtube.com/watch?v=XLAmyo2d4ko</a>
Exploration:	Students will have different problems to solve or to review, the technology will allow for both correct and incorrect answers to be explained. Students can work at their own pace.
Explanation:	Students will be able to recognize and learn how PEMDAS works in relation to mathematics. They will be able to understand what each symbol means. -(parenthesis, exponents, multiplication, division, addition, and subtraction) We will do 3 problems as a class for clarity.
Elaboration:	If students are not understanding what to do based on the video instruction as well as explanations while solving problems, we as the teachers will also be available to the students if they need extra instruction or guidance.
Evaluation:	Students' knowledge and understanding will be evaluated by students solving problems throughout the interactive assignment. The problems are similar to what would be seen on a test but they also tell the correct answer after an answer has been submitted. This allows students to know where they are at with their understanding as well.

Differentiation Strategies to Meet Learning Needs: Students will independently work on this assignment which allows them to work at their own pace to meet their learning needs. Since this assignment is independent, as the teacher we will be able to walk around the room and help students one-on-one if needed.

Rationale for Technology Tools Used: We are using this interactive website to gauge student understanding on the concept of PEMDAS. Before engaging in this worksheet the students will watch a short video reviewing the process of PEMDAS.