

# Order of Operations

## Summary

Students will be able to apply the order of operations when performing calculations

## Main Core Tie

Mathematics Grade 7

[Strand: EXPRESSIONS AND EQUATIONS \(7.EE\) Standard 7.EE.3](#)

## Additional Core Ties

Secondary Mathematics I

[Strand: ALGEBRA - Seeing Structure in Expressions \(A.SSE\) Standard A.SSE.1](#)

## Time Frame

1 class periods of 45 minutes each

## Group Size

Small Groups

## Life Skills

Thinking & Reasoning, Communication, Systems Thinking

## Background for Teachers

Some activities require advance preparation - see resource page.

## Student Prior Knowledge

Students should be proficient at adding, subtracting, multiplying, and dividing one-digit numbers.

## Intended Learning Outcomes

Students will understand why using the correct order of operations is essential in mathematics, and be able to use order of operations correctly.

## Instructional Procedures

(all materials mentioned are on the materials website) Lesson begins with large-group pre-assessment via smartboard "Variables and Expressions." Teacher then presents powerpoint lesson order\_of\_operations.ppt to large group, being sure to clarify any misunderstanding that occurred in the pre-assessment. The web sites from the resource page may also be used. Students then complete the exproderofopergame.pdf and/or orderofoperpuzzle.pdf in small groups. Individual homework is hworderofoperations.pdf.

## Strategies for Diverse Learners

struggling students may use sgorderoperations.pdf for homework. Gifted students may complete the journal prompt.

## Extensions

quotableorderofoper.pdf and fourfours.pdf Also, a video of the lesson is downloadable and may be posted on the class website for review by students outside the classroom.

## Rubrics

[Math Problem Solving Rubric](#)

## Bibliography

open-source materials from Henrico County Schools

## Authors

[Tina Eagar](#)